No. 13.

Caradoc & Severn Valley Field Club.

RECORD OF BARE FACTS

FOR THE YEAR 1903.

A LIST OF THE

MORE NOTEWORTHY OBSERVATIONS

MADE BY THE MEMBERS OF THE

CARADOC & SEVERN VALLEY FIELD CLUB

AND OTHERS.

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,, BROWNLOW TOWER, Ellesmere.
,, W. A. WILKINSON, Sutton Coldfield.

The names printed in italics after each occurrence recorded are those of the observers.

List of Meteorological observers at end of Record.

BOTANY.

Roman numerals refer to the Botanical Districts of the County as shown on the "Caradoc Map."

FLOWERING PLANTS.

The nomenclature employed in the following pages is that of the Index Kewensis and of Hooker's Manual; that of the London Catalogue Ed. IX., wherein it differs from it, is placed in brackets.

The attention of Members is called to the Resolution passed at the Annual Meeting, 1902, (see Bare Facts of 1893,) respecting the date upon which specimens should be sent to the Referees; the way in which lists should be drawn up, and the dates upon which these should be sent to the Referees.

Members who may be willing to work up the Botany of any special districts in the County are requested to communicate as soon as possible with the Sub-Referee for Phanerogamous Plants who will be happy to correspond with them.

Very few records of Roses have been sent in this year. Information respecting them is needed from nearly all the Botanical Districts. The same remark applies to the Willows.

Lists have been sent in from Revds. A. Bonney, W. H. Painter and J. A. Panter; Messrs. W. B. Allen, jun.; W. Beacall; R. de G. Benson; T. P. Blunt; F. B. Duncan; W. P. Hamilton; W. Phillips, F L S.; F. Poole; G. Potts, and "Members of the Club," in which about 400 plants are recorded. As some of these plants have previously appeared in Leighton's Flora and Bare Facts they have been omitted from the following pages.

Four plants new to the County have been met with during the past year.

Rosa micrantha and **R. glauca**, *var* **coriifolia**.
Hieracium lasiophyllum.
Linaria repens + vulgaris.

Ranunculus bulbosus, *L.*
XI. Near Wellington. *Painter.*

Nuphar luteum, *Sibth.* (**Nymphæa lutea**, *L.*)
XII. Cleobury Mortimer (introduced.) *Duncan.*

Corydalis lutea, DC. (**Neckeria lutea** *Scop.*)
XII. Silvington Mill. *Duncan.*

Fumaria media, *Loisl.* (**F. Boræi**, *Jord.*)
XII. Cleobury Mortimer. *Duncan.*

Cheiranthus Cheiri, *L.*
XII. Cleobury Mortimer and Bridgnorth. *Duncan.*

Barbarea vulgaris, *Bm.*
VIII. Harley Bank. *Beacall.*
Benthall Edge. *Hamilton.*

Cardamine amara, *L.*
VIII. Tickwood. *Allen.*
XI. River Side, Wroxeter. *Blunt.*
XII. Winnal Brook, Kinlet. *Duncan.*

C. impatiens, *L.*
XII. Highley, near Colliery Siding. *Duncan.*

Hesperis matronalis, *L.*
VIII. Near Dorrington. *F. Poole.*

Seniebiera Coronopus, *Poiret.* [Coronopus Ruelii, *All.*]
XII. Hampton Loade. *Duncan.*

Lepidium campestre, *R. Br.*
X Presthope. *Potts.*

L. Draba, *L.*
XII. Railway Bank near Sunning. *Potts.*

Thlaspi arvensis, *L.*
X. Presthope. *Potts.*
XII. Eardington. *Duncan.*

Viola lutea, *Huds.*
VI. Bettws-y-Crwyn. *Panter.*

Lychnis Githago, *Scop.*
X. Presthope. *Potts.*

Arenaria trinervia, *L.*
XI. Limekiln Woods. *Painter.*
XII. Eardington. *Allen.*

Spergula arvensis, *L.*
var. sativa, [*Bœnn.*]
II. Baschurch } *Members of the Club.*
VII. Whixall. }

Hypericum hirsutum, *L.*
XII. Cleobury Mortimer. } *Duncan.*
XII. Highley. }

Malva sylvestris, *L.*
XIII. Hampton Loade. *Duncan.*

M. rotundifolia, *L.*
XII. Eardington. *Duncan.*

Linum usitatissimum, *L.*
VIII. Vineyards, near Wyke. *Potts.*

Geranium columbinum, *L.*
VIII. Farley Dingle. *Potts.*
IX. Plowden. *Allen.*
X. } Abundant between Wenlock and Presthope. *Potts.*
XII. }

G. Robertianum, *L.*
VIII. Harley Bank, with white flowers. *Beacall.*

Impatiens parviflora *DC.*
XII. Old Pit Mounds, near Broseley. *Potts.*

Ilex Aquifolium, *L.*
XII. Wyre Forest; Kinlet; Holley Waste, Cleobury. Form with spineless leaves. *Duncan.*

Acer campestre, *L.*
XII. Cleobury Mortimer. } *Duncan.*
XIII. Hampton Loade. }
Coalbrookdale. *Painter.*

Ononis spinosa, *L.*
X. }
XII. } Between Wenlock and Presthope. *Potts.*

Trifolium hybridum, *L.*
XII. }
XIII. } Common. *Duncan.*

Vicia sylvatica, *L.*
XII. Highley } *Duncan.*
XIII. Hampton Loade. }

V. sativa, *L.*
XII. Hampton Loade. *Duncan.*

V. angustifolium, *L.*
XIII. Highley. *Duncan.*

Additional Notes to the following Rubi recorded in last year's Bare Facts have appeared in the Botanical Exchange Club Report for 1902, from Rev. W. Moyle Rogers, pp 41 and 43.

Rubus macrophyllus, *W. & N.*

"This belongs to aggregate macrophyllus, but goes to sub-species Schlechtendalii *Weihe*, rather than to the type."

R. radula, *Weihe.*

"A strong form of my sub-species Anglicanus, frequent in the north and in its armature one step nearer typical radula than the common South England form described in my Handbook of British Rubi."

R. Sprengelii, *Weihe.*

XI. Heath, near Woore, *Major A. H. Wolley-Dod* in Report as above

Potentilla procumbens, *Sibth.*
XII. Catherdon Common. *Duncan.*

P. reptans, *L.*
VIII. Benthall Edge. *Painter.*
XII. Highley. *Duncan.*

Poterium Sanguisorba, *L.*
VIII. Benthall Edge. *Hamilton.*

P. officinale, *Hook fil.*
XI. In a copy of Smith's Eng. Bot. 1828, in Mr. W. Beacall's possession, formerly the property of "R. J. Higgins, 1832," there is a M. S. Record—"Side of the Canal near the foot-road to Edgmond."

Rosa rubiginosa, *L.*
VIII. Tickwood. *Potts & Allen*, det. *Painter.*

R. micrantha, *Sm.*
VIII. Tickwood. *Potts.*

R. tomentosa, *Sm.*
VIII. Tickwood. *Potts*, det. *J. W. White, F.L.S.*

R. glauca, *Vill.*
var. coriifolia (*Fr.*)
VIII. Benthall Edge. *Potts*, det. *J. W. White, F.L.S.*
Not typical.

Pyrus malus, *L, agg*
XII. Wyre Forest. *Duncan.*

Cratægus Oxyacantha, *L.*
var. monogyna (*Jacq.*)
XI. Limekiln Woods. } *Painter.*
XIII. Cox Wood. }

Chrysosplenium alternifolium, *L.*
XI. Near Norton-in-Hales. } *Potts.*
XII. Linley Brook. }

Ribes Grossularia, *L.*
XII. Hampton Loade. *Duncan.*

Sedum dasyphyllum, *L.*
XII. Walls, Farlow. *Duncan.*

S. anglicum, *L.*
XII. Roofs and Walls, Cleobury Mortimer. *Duncan.*

Drosera rotundifolia, *L.*
VIII. Whixall Moss. *Members of the Club.*
XII. Clee Hills: Catherden Marshes. *Duncan.*

Hippuris vulgaris, *L.*
VIII. Tickwood. *Allen.*

Myriophyllum spicatum, *L.*
VII. Near Edstaston. *Beacall.*

Callitriche verna, *L.*
XII. Kinlet. *Duncan.*

Epilobium angustifolium, *L.*
VI. Bettws-y-Crwyn. *Panter.*

E. hirsutum, *L.*
XII. Highley } *Duncan.*
XII. Hampton Loade }

E. palustre, *L.*
II. Fenemere. *Allen.*

Œnothera biennis, *L.*
VIII. Buildwas. *Allen.*

Sium erectum, *Huds.*
II. Birchgrove Pool, Baschurch. *Members of the Club.*

Chærophyllum temulum, *L.*
XII. Kinlet. *Duncan.*

Anthriscus vulgaris, *Bernh.*
IV. Bomere. *Forrest.*

Œnanthe crocata, *L.*
VI. Bettws-y-Crwyn. *Panter.*

Œ. Phellandrium, *Lam.*
XII. Near Highly. *Duncan.*

Æthusa Cynapium, *L.*
II. Baschurch. *Allen.*

Silaus flavescens, *Bernh.*
VIII. Gippils. *Allen.*
Vineyards. *Potts.*
XII. Eardington Forge. *Duncan.*
Benthall. *Allen.*

Peucedanum sativum, *Benth & Hook, f.*
VIII. Waste-ground, Buildwas Station. *Allen.*

Heracleum Sphondylium, *L.*
XII. Highly, a narrow-leaved fern approaching. *var. b. Duncan.*
XIII. Hampton Loade. *Duncan.*

Caucalis nodosa, *Scop.*
X. Near Presthope. *Potts.*

Adoxa Moschatellina, *L.*
XI. Norton-in-Hales, *Potts.*

Galium Cruciata, *Scop.*
VIII. Benthall Edge. *Hamilton.*
XI. Limekiln Woods. *Painter.*
XII. & XIII. Common. *Duncan.*

G. Mollugo, *L.*
XII. Highly. *Duncan.*

Dipsacus pilosus, *L.*
VIII. Benthall Edge. *Hamilton.*
XIII. Alum Rock. *Duncan.*

Scabiosa Columbaria, *L.*
VIII. } Abundant on Limestone between Wenlock and Presthope
X. } Boundaries ill defined. } *Potts.*
XII. Near Wenlock. }

Erigeron acre, *L.*
X. Presthope. } *Potts.*
XII. Fields on the top of Edgewood near Wenlock }

Pulicaria dysenterica, *Gaertn.*
XII. Chelmarsh. *Duncan.*

Anthemis Cotula, *L.*
XII. Eardington, *Duncan.*

Chrysanthemum Segetum, *L.*
IX. Near Hope Bowdler. *Potts.*

C. Parthenium, *Pers.*
VIII. Tickwood. *Painter.*
XII. Mor Brook. *Duncan.*

Senecio erucifolius, *L.*
XII. Chelmarsh. *Duncan.*

Arctium majus, *Bernh.*
XII. Highley. *Duncan.*

Carduus nutans, *L.*
VII. Eardington. *Duncan.*

Hieracium aurantiacum, *L.*
VI. Bettwys-y-Crwyn. *Panter.*

H. lasiophyllum, *Koch.*
IV. Pontesbury Hills. *Hamilton*, det. *Rev. A. Ley.*

H. sciaphilum, *Uechtritz.*
XI. Limekiln Woods. *Painter.*

Leontodon hirtus, *L.*
XII. Highley. *Duncan.*

Tragopogon pratense, *L.*
XII. Highley. *Duncan.*

Jasione montana, *L.*
VI. Bettws-y-Crwyn. *Panter.*

Campanula glomerata, *L.*
X. Presthope. *Potts.*

C. patula, *L.*
VI. Bettws-y-Crwyn. *Panter.*

Primula acaulis × Veris.
VIII. Gippils. *Allen.*

P. veris, *L.*
VIII. Benthall Edge. *Hamilton.*
XI. Limekiln Woods. *Painter.*
XII. & XIII. Common. *Duncan.*

Anagallis arvensis, *L.*
VIII. Tickwood. *Painter.*
XII. Chelmarsh, Holly Waste, Cleobury Mortimer. *Duncan.*

Polemonium cæruleum, *L.*
XII. Near Cleobury Mortimer Station. An Escape. *Duncan.*

Cynoglossum officinale, *L.*
VIII. Tickwood. *Potts & Hamilton.*

Symphytum officinale, *L.*
XII. Highley. *Duncan.*

Anchusa sempervirens, *L.*
XII. Chelmarsh. *Allen.*

Lycopsis arvensis, *L.*
XII. Benthall. *Allen & Potts.*
XIII. Sutton Maddock. *Potts.*

Myosotis sylvatica, *Hoffm.*
VIII. Tickwood, *Hamilton.*
XII. Highley, *Duncan.*

Convolvulus arvensis, *L.*
XII. Highly. *Duncan.*

Solanum Dulcamara, *L.*
XII. Highley. Chelmarsh. *Duncan.*

Hyoscymus niger, *L.*
VIII. Tickwood. *Allen.*

Verbascum Thapsus, *L.*
XII. Kinlet. Hampton Loade. *Duncan.*

Linaria repens × vulgaris,
X. Railway Bank near Presthope. *Potts.* det. *G. C. Druce, M.A., F.L.S.*

L. vulgaris, *Mill.*
XII. Highley. *Duncan.*

Scrophularia aquatica, *L.*
XII. Highley, Borle Brook. *Duncan.*

Mimulus Langsdorfiii, *Don.* (M. luteus, *L.*)
VI. Bettws-y-Crwyn. *Panter.*

Veronica hederæfolia, *L.*
XI. Near Wellington. *Painter.*
XII. Cleobury Mortimer. *Duncan.*

V. polita, *Fr.*
VIII. Buildwas. *Painter.*

V. montana, *L.*
XI. Limekiln Woods. *Painter.*

V. scutellata, *L.*
VI. Bettws-y-Crwyn. *Panter.*

Euphrasia nemora, *H. Mart.*
VIII. Tickwood. *Painter.*

Pedicularis sylvatica, *L.*
XI. Limekiln Woods. *Painter.*

Lathræa Squamaria, *L.*
IV. Dawley Wood. *E. B. Benson.*

Calamintha Acinos, *Clairv* (C. arvensis, *L.*)
XI. & XII. Abundant in fields near Edgewood, between Wenlock and Presthope. *Potts.* det. *G. C. Druce, M.A., F.L.S.*

C. officinalis, *Moench.*
VIII. Wyke. *Allen.*

Marrubium vulgare, *L.*
VIII. Cound Lodge. *Allen.*

Galeopsis Ladanum, *L.*
var. angustifolia, *Ehrh.*
X. Presthope } *Potts.*
XII. Fields near Edgewood

Lamium Galeobdolon, *Crantz.*
XI. Limekiln Woods. *Painter*

Littorella juncea, *Berg.*
VI. Bettws-y-Crwyn. *Panter.*

Atriplex patula, *L.*
var. angustifolia (*Sm*)
VIII. Buildwas. *Painter.*

Polygonum Convolvulus, *L.*
var. subalatum, *V. Hall.*
VIII. Buildwas. *Painter.*

Rumex obtusifolius, *L.*
IV. Cherry Orchard. *Hamilton.*

R. acetosa, *L.*
IV. Cherry Orchard. *Hamilton.*

Viscum album, *L.*
VIII. Tickwood, on Lime-tree. *Members of the Club.*
XII. Near Stanley Hall in Hawthorn. *Potts.*
Borle Brook. *Duncan.*

Ulmus montanus, *Stokes.*
IV. Sparrow Lane (planted). *Hamilton.*
XIII. Cox Wood. *Painter.*

U. surculosa, *Stokes.*
IV. Robertsford (planted). *Hamilton.*

Urtica urens, *L.*
VII. Haughmond Hill. *Hamilton.*
VIII. Tickwood. *Potts.*

Betula verrucosa, *Ehrh.*
XII. Wyre Forest. *Duncan.*

Carpinus Betulus, *L*
IV. Sutton and Kingsland. *Hamilton.*

Salix cinerea, *L.*
VIII. Buildwas } *Painter.*
XI. Limekiln Woods

S. aurita × cinerea
(S. lutescens, *A. Kern*)
XI. Near Wellington. *Painter.*

S. Caprea, *L.*
XI. Near Wellington. *Painter.*

Populus alba, *L.*
XII. Aldenham. *Potts & Allen.*
Chelmarsh. *Duncan.*

Populus canescens, *Sm.*
XII. Coalmoor Green, near Astley Abbotts; Willey; Linley; Aldenham, and Highley. *Potts & Allen*, det. *F. W. White, F.L.S.*
XIII. Apley Park, near Bridgnorth. *Potts & Allen*, det. *F. W. White, F.L.S.*

P. tremula, *L.*
VIII. Benthall Edge, Tickwood.
X. The Heath.
XII. Common in the Northern portion.
} *Potts & Allen.*

P. nigra, *L.*
IV. Fields below Cherry Orchard opposite Castle Fields; the back of Monkmoor Farm, both near the Severn, large trees, and now both gone. *Hamilton.*
XII. Borle Brook. *Duncan.*

Elodea canadensis, *Mich.*
VIII. Tickwood. *Potts & Painter.*

Spiranthes autumnalis, *Rich.*
XII. Fields between Shirlet and Aldenham. *Potts.*

Epipactis palustris, *Crantz.*
XII. Bog adjoining Bilet Coppice. *Potts.*

Orchis Morio, *L.*
IV. Monkmoor. *H. J. Hamilton.*
XII. Near Furnace Mill, Wyre Forest; Kinlet.
XIII. Hampton Loade and Highley.
} *Duncan.*

O. maculata, *L.*
Near Oswestry, *W. Whitwell*, is a hybrid with **Habenaria conopsea**, *Benth.* fide *Rev. E. F. Linton*, in Jour. Bot. Aug. 1902.

Ophrys apifera, *Huds.*
XII. Oreton. *Duncan.*

Habenaria bifolia, *R.Br.*
VI. Bettws-y-Crwyn. *Panter.*

Galanthus nivalis, *L.*
VIII. Trapp's Coppice near Wenlock, one solitary clump apparently far from any habitation or cultivation. *Allen.*

Tamus communis, *L.*
XI. Limekiln Woods, *Painter.*

Allium vineale, *L.*
XIII. Lincoln Hill, Iron Bridge, in small quantity. *Painter.*

Ornithogalum umbellatum, *L.*
XII. Near Furnace Mill, Wyre Forest; probably in Worcestershire. *Duncan.*

Paris quadrifolia, *L.*
VIII. Benthall Edge. *Hamilton.*

Sparganium ramosum, *Huds. agg.*
VII. Whixall Moss. *Members of the Club.*
var. **microcarpum**, *Neuman.*
VIII. Tickwood. *Painter.*

Arum maculatum, *L.*

From observations of many hundreds of plants in 1903, it was found that a very large majority had the leaves unspotted. *Hamilton.*

XI. Limekiln Woods. *Painter.*

Lemna trisulca, *L.*

XII. Pool at Benthall. *Allen.*

Sagittaria sagittifolia, *L.*

XII. Near Severn, Highley. *Duncan.*

Potamogeton polygonifolius, *Pour.*

XII. Shirlet Common, Linley. *Potts.*

Scirpus lacustris, *L.*

XII. Benthall. *Allen.*

Eriophorum, angustifolium, *Roth.*

XII. Roger Bilet Coppice, Aldenham. *Potts.*

Rynchospora alba, *Vahl.*

XII. Cathedon Marshes. *Duncan.*

Cladium germanicum, *Schrad.* (C. jamaicense, *Crantz.*)

II. Pool near Marton. *Beacall.*

Carex vulpina, *L.*

XII. Borle Brook
XIII. Alum Brook, Hampton Loade. } *Duncan.*

C. muricata, *L.*

XII. Highley. Eardington. Titterstone, Clee Hill. *Duncan.*

C. remota, *L.*

XII. Highley. *Duncan.*

C. pallescens, *L.*

XII. Wyre Forest. *Duncan.*

C. pendula, *Huds.*

VIII. Tickwood. *Hamilton.*

C. strigosa, *Huds.*

XII. Near Birch Farm, Kinlet. *Duncan.*

C. acutiformis, *Ehrh.*

XII. Mor Brook. *Duncan.*

Milium effusum, *L.*

XI. Limekiln Woods. *Painter.*

Aira caryophyllea, *L.*

XII. Titterstone, Clee Hill. *Duncan.*

Avena pubescens, *Huds.*

XII. Cardington. *Duncan.*

Triodia decumbens, *Beauv.* (Sieglingia decumbens, *Bernh*

XII. Chelmarsh. *Duncan.*

Molinia coerulea, *Moench.* (M. varia, *Schrank*).

XII. Clee Hills. *Duncan.*

Melica uniflora, *Retz.*
XII. Highley. *Duncan.*

Hordeum murinum, *L.*
XII. Eardington. *Duncan.*

Brachypodium sylvaticum, *Beauv.* (B. gracile, *Beauv.*)
VIII. Tickwood. *Painter.*

Ceterach officinarum, *Willd.*
VI. Bettws-y-Crwyn. *Panter.*

FILICES.

Ophioglossum vulgatum, *L.*
IV. Fields under the Lawn Hill. *E. B. Benson.*

Botrychium Lunaria, *Sw.*
VIII. Fields at the Lea, Castle Pulverbatch (1902.) *R. de G. Benson.*
Tickwood and lower part of Benthall Edge. *Allen.*

EQUISETACEÆ.

Equisetum sylvaticum, *L.*
XI. Limekiln Woods. *Painter.*

CHARACEÆ.

Chara vulgaris, *L.*
VIII. Tickwood. *Painter.*

MOSSES.

Spagnum rubellum, *Wils.* (a pale variety).
XII. Titterstone Clee Hill. *Duncan.*

S. Gravetii, *Warnot.*
IX. Longmynd, 1896. *Painter.*

Tetraphis pellucida (*L.*) *Hedw.*
II. Colemere. *Hamilton*
VIII. Benthall Edge. *Hamilton.*

Polytrichum piliferum, *Schreb.*
VI. Kinsley Wood.

P. juniperinum, *Willd.*
VI. Kinsley Wood.

} *Hamilton.*

P. formosum, *Hedw.*
XIII. Cox Wood. *Painter.*

Seligeria pusilla (*Ehrh*) *B. & S,*
XII. Bowhills Dingle, Hampton Loade. *Duncan.*

Ceratodon purpureus (*L*). *Brid.*
VI. Kinsley Wood.

Dicranella heteromalla (*Dill*) *Schimp.*
II. Colemere.
VIII. Benthall Edge.
XI. Limekiln Wood. *Painter.*

Hamilton.

D. varia (*Hedw.*) *Schimp.*
XIII. Stirchley, and Neach Hill, Shifnal. *Painter.*

Dicranoweissia cirrata (*L.*) *Lindb.*
VIII. Benthall Edge
XI. Limekiln Woods } *Painter.*

Campylopus flexuosus (*L.*) *Brid.*
II. Colemere.

C. pyriformis (*Schultz.*) *Brid.*
VI. Kinsley Wood.

Dicranum scoparium (*L.*) *Hedw.*
VI. Kinsley Wood.

Fissidens taxifolius (*L.*) *Hedw.*
II. Canal side near Ellesmere.
XIII. Cox Wood. *Painter.*

Hamilton.

Ptychomitrium polyphyllum (*Dicks*). *Fürnr.*
XIII. Stirchley, railway cutting. *Painter.*

Tortula muralis (*L.*) *Hedw.*
II. Ellesmere, &c. *Hamilton.*

T. subulata (*L.*) *Hedw.*
XI. Between Wellington and Uppington. *Painter.*

T. ruralis, (*L.*) *Ehrh.*
II. Canal side near Blackmere.

Barbula rubella (*Hoffm.*) *Mitt.*
VIII. Benthall Edge.

B. fallax, *Hedw.*
II. Canal side near Blackmere.

B. cylindrica (*Tayl.*) *Schimp.*
VII. The well on Haughmond Hill.

B. unguiculata (*Huds.*) *Hedw.*
II. Canal side near Blackmere.
VI. Kinsley Wood.

Weissia viridula (*L.*) *Hedw.*
VI. Kinsley Wood.

Hamilton.

W. tenuis (*Schrad.*) *C.M.*
XII. Bowhills Dingle, Hampton Loade.

Trichostomum crispulum, *Bruch*, near *var.* gracile, *Dix.*
XII. Mor Brook.

Duncan.

Encalypta, streptocarpa, *Hedw.*
VIII. Between Buildwas and Benthall Edge. *Hamilton.*

Ulota crispa (*Gmel.*) *Brid.*
XII. Bowhill Dingle, Hampton Loade. *Duncan.*

Funaria hygrometrica (*L.*) *Sibth.*
VIII. Benthall Edge.

Leptobryum pyriforme (*L.*) *Wils.* (*fl.*)
II. Shrewsbury under a semi-transparent cellar-flap in the middle of the town
VIII. Benthall Edge

Webera nutans (*Schreb.*) *Hedw.*
II. Colemere.
XI. Limekiln Woods.

Hamilton.

W. albicans,
XIII. Hem Lane, Shifnal.

Bryum pseudotriquetrum, (*Hedw.*) *Schwg.*
XIII. Hem Lane, Shifnal.

Painter.

B. capillare, *L.*
II. Canal side, Ellesmere. *Hamilton.*

Mnium rostratum, *Schrad.*
XII. Bowhills Dingle, Hampton Loade. *Duncan.*
XIII. Cox Wood. *Painter.*

M. hornum, *L.*
II. Canal side near Blackmere.
VI. Kinsley Wood.
VIII. Benthall Edge.

Hamilton.

M. stellare, *Reich.*
XII. Bowhills Dingle, Hampton Loade, *Duncan.*

Homalia trichomanoides (*Schreb.*) *Brid.*
VIII. Benthall Edge.

Thuidium tamariscinum
VIII. Benthall Edge
XI. Limekiln Woods. *Painter.*

Hamilton.

Brachythecium rutabulum (*L.*) *B. & S.*
VI. Kinsley Wood.

B. rivulare (*Bruch.*) *B. & S.*
VIII. Benthall Edge.

B. velutinum (*L.*) *B. & S.*
VI. Kinsley Wood.
VIII. Benthall Edge. *Painter.*

Hamilton.

B. plumosum (*Sw.*) *B & S.*
XIII. Cox Wood. *Painter.*

B. purum (*L.*) *Dix.*
II. Colemere. *Hamilton.*
XI. Limekiln Woods. *Painter.*

Eurhynchium prælongum (*Sw.*) *B. & S.*
II. Canal side near Blackmore. *Hamilton.*
VIII. Farley Dingle. *Painter.*

E. Swartzii (*Turn.*) *non Hobkirk.*
II. Canal side near Blackmere.
VIII. Benthall Edge.
} *Hamilton.*

E. Teesdalei (*Sm.*) *Schimp.*
VIII. Benthall Edge.

E. tenellum (*Dicks.*) *Milde.*
XII. Bowhills Dingle, Hampton Loade. *Duncan.*

E. myosuroides (*L.*) *Schimp.*
VIII. Benthall Edge. *Hamilton.*

E. rusciforme (*Weiss.*) *Milde.*
VIII Benthall Edge. *Hamilton.*

E. murale (*Hedw.*) *Milde.*
XII. Bowhills Dingle, Hampton Loade. *Duncan.*

Plagiothecium Borrerianum. *Spruce.*
II. Colemere.
} *Hamilton.*

P. denticulatum (*L.*) *B. & S.*
VI. Kinsley Wood.
VIII. Benthall Edge.
XI. Limekiln Woods. *Painter.*

P. sylvaticum (*L.*) *B. & S.*
II. Canal side near Blackmere.

P. latebricola (*Wils.*) *B. & S.*
XII. Wyre Forest. *Brinstead.*

Amblystegium serpens (*L.*) *B. & S.*
XI. Limekiln Woods. *Painter.*

A. filicinum, (*L.*) *De Not.*
VI. Kinsley Wood.

Hypnum stellatum, *Schreb. var.* protensum (*Brid.*) *B. & S.*
VIII. Benthall Edge.

H. fluitans, *L. var.* atlanticum, *Ren.*
IX. Stiperstones.
} *Hamilton.*

H. exannulatum, *Gümb. var.* pinnatum, *Boul.*
VII. Haughmond Hill.

H. cupressiforme, *L.*
VI. Kinsley Wood, also *var.* filiforme, *Brid.*
XI. Limekiln Woods.
XII. Caughley.
XIII. Cox Wood.
} *Painter.*

H. palustre, *L.*
XII. Bowhills Dingle, Hampton Loade. *Duncan.*

Hypnum cuspidatum, *L.*
II. Canal side near Blackmere.
VI. Kinsley Wood.

H. Schreberi, *Willd.*
VI. Kinsley Wood.

Hylocomium squarrosum (*L.*) *B. & S.*
VI. Kinsley Wood.
VIII. Benthall Edge.
XIII. Coalbrookdale. *Painter.*

} *Hamilton.*

HEPATICÆ

Collected by W. P. Hamilton unless otherwise stated.

Frullania dilatata (*L.*) *Dum.*
VI. Kinsley Wood.

Blepharozia ciliaris (*L*) *Dum.*
VII. Haughmond Hill.

Trichocolea tomentella (*Ehr.*) *Nees.*
VIII. Benthall Edge.

Kantia trichomanis (*Dicks.*) *C. & P.*
XIII. Cox Wood.

Scapania ornithopodioides (*With.*)
XIII. Cox Wood.

} *Painter*

Lophocolea bidentata (*L.*) *Dum.*
II. Colemere.
VIII. Benthall Edge.

L. heterophylla (*Schrad.*) *Dum.*
IV. Lydd Hole.

Nardia scalaris (*Schrad.*) *Carr.*
VI. Kinsley Wood.

Metzgeria furcata (*L.*) *Dum.*
VIII. Benthall Edge.

Marchantia polymorpha (*L.*) *Nees.*
II. Shrewsbury with male flowers, on a patch of earth in the corner of a back yard in the centre of the town.

Conocephalus conicus (*L.*)
IV. Sutton Mill dam.

Lunularia cruciata (*L.*)
IV. Garden, Cherry Orchard.

FUNGI.

Collected by W. B. Allen.

Agaricus (Amanita) strobiliformis, *Vitt.*
VIII. Tickwood, under birches.

A. (Lepiota) clypeolarius, *var.* pratensis, *Bull.*
VIII. Tickwood. XII. Shirlett, Wyre Forest.

This very distinct variety would seem to take the place of type in this county and adjoining county of Worcestershire where it is fairly common. Type clypeolarius is absent from Worcester and only one specimen appears to have been taken in Shropshire, viz. by Mr. Phillips, Wrekin, June 1872.

A. (Tricholoma) resplendens, *Fr.*
XII. Shirlett.

A. (Tricholoma) rutilans, *Schaeff.*
VIII. Lime Kiln Wood, Wenlock.

A. (Tricholoma carneus, *Bull.*
VIII. Tickwood. XII. Wyre Forest.

A. (Tricholoma) albus, *Schaeff.*
VIII. Tickwood.

A. (Tricholoma) melaleucus. *Pers. var.* porphyroleucus, *Bull.*
VIII. Fields on Wenlock Edge.

A. (Clitocybe) fragrans, *Sow.*
VIII. Wenlock Edge.

A. (Clitocybe cyathiformis, *Bull.*
XII. Benthall.

A. (Collybia) longipes, *Bull.*
XIII. Wrekin.

A, (Collybia) maculatus, *A. & S.*
VIII. Tickwood. XIII. Wrekin.

A. (Collybia) dryophilus, *var.* funicularis, *Fr.*
XII. Linley Brook.

A. (Collybia) rancidus, *Fr.*
XII. Barrow. Wyre Forest.

A. Collybia) confluens, *Pers.*
VIII. Tickwood. XII. Willey. XIII. Ercall Woods.

A. (Collybia) tenacellus, *Pers. var.* stolonifer, *Jungh.*
XII. Benthall.

A. (Mycena elegans, *Pers.*
VIII. Tickwood.

A. (Mycena) lacteus. *Pers.*
XII. On lawn, Benthall.

Agaricus (Mycena) polygrammus, *Bull.*
VIII. Tickwood.

A. (Mycena) metatus, *Fr.*
XII. Stocking Mounts, Broseley.

A. (Mycena) sanguinolentus, *A. & S.*
VIII. Wenlock Edge. XII. Shirlett.

A. (Mycena) galopodus, *Fr.*
VIII. Wenlock Edge. XII. Shirlett.

A. (Mycena) vulgaris, *Pers.*
XII. Benthall.

A. (Omphalia) Postii, *Fr.*
XII. Wyre Forest.

A. (Omphalia) rusticus, *Fr.*
XII. Shirlett.

A. (Pleurotus) corticatus, *Fr.*
XII. On oak, Shirlett.

A. (Pleurotus) ostreatus, *Jacq.*
XII. On willow, Benthall.

A. (Volvaria) parvulus, *Fr.*
VIII. Tickwood.

A. (Entoloma) sinuatus, *Fr.*
VIII. Tickwood.

A. (Entoloma) lividus, *Bull.*
XII. Shirlett. Wyre Forest.

A. (Entoloma) porphyrophaeus, *Fr.*
XII. Benthall

A. (Entoloma) griseo-cyaneus, *Fr.*
XII. Wyre Forest.

A. (Pluteus) salicinus, *Pers.*
VIII. Wenlock Edge.

A. (Leptonia) lampropodus, *Fr.*
VIII. Benthall Edge. XII. Benthall.

A. (Eccilia) atropunctus, *Pers.*
VIII. Tickwood.

A. (Pholiota) erebius, *Fr.*
VIII. On rich soil. Tickwood.

A. (Pholiota) radicosus, *Bull.*
VIII. Tickwood.

A. (Inocybe) incarnatus, *Bres.*
XII. Barrow.

A. (Inocybe) obscurus, *Pers.*
XII. Benthall, under firs.

Agaricus (Inocybe) tricholoma, *A. & S.*
XII. Benthall.

A. (Psalliota) echinatus, *Roth.*
VIII. Wenlock Edge.

We follow Fries in recording this rare and much controverted Agaric. Cooke places it in Inocybe, Bulliard in Lepiota. Our specimen had a perfect erect ring and very granular stem and pilens, much resembling the granulosi group of Lepiota but the spores were distinctly coloured.

A. Psaltiota) comptulus, *Fr.*
XII. Wyre Forest. VIII. Tickwood.

A. (Hypholoma) dispersus, *Fr.*
XIII. Wrekin.

A. Hypholoma) appendiculatus, *Bull.*
XII. Willey.

A. (Panaeolus) phalaenarum, *Fr.*
VIII. Wenlock Edge.

A. (Panaeolus) separatus, *Karst.*
XII. Benthall.

Cortinarius (Phleg.) triumphans, *Fr.*
XII. Under birches, Shirlett

C. (Phleg.) talus, *Fr.*
VIII. Tickwood.

C. (Phleg.) glaucopus, *Fr.*
XII. Shirlett.

C. (Phleg.) decolorans, *Fr.*
XII. Shirlett.

C. (Myx.) mucifluus, *Fr.*
VIII. Tickwood. XII. Shirlett.

C. (Inol.) albo-violaceus, *Fr.*
XIII. Wrekin.

C. (Dermoc.) lepidopus, *Cke.*
XII. Wyre Forest.

C. (Dermoc.) cinnamomeus, *Fr.*
XII. Shirlett.

C. (Tel.) torvus, *Fr.*
VIII. Tickwood. XII. Shirlett.

C. (Tel.) hemitrichus, *Fr.*
XII. Stocking Mounts, Broseley.

C. (Hyd.) saturninus, *Fr.*
VIII. Tickwood.

C. (Hyd.) colus, *Fr.*
VIII. Tickwood.

Gomphidius glutinosus, *Schaeff*,
VIII. Wenlock Edge.

Gomphidius viscidus, *Sow.*
VIII. Wenlock Edge.

Paxillus giganteus, *Fr.*
XII. Shirlett. Wyre Forest.

Hygrophorus eburneus, *Bull.*
VIII. Tickwood, under beeches.

H. arbustivus, *Fr.*
XII. Bilet, Wyre Forest.

H. virgineus, *Wulf. var.* roseipes, *Mass.*
VIII. Tickwood.

H. laetus, *Fr.*
XII. Benthall.

H. puniceus, *Fr.*
VIII. Tickwood.

H. conicus, *Fr.*
VIII. Tickwood.

H. nitratus, *Pers.*
XII. Willey Park.

Lactarius scrobiculatus, *Scop.*
VIII. Tickwood.

L. uvidus, *Fr.*
VIII. Tickwood.

L. deliciosus, *Fr.*
VIII. Tickwood.

L. fuliginosus, *Fr.*
XII. Shirlett, Wyre Forest.

Russula cyanoxantha, *Schaeff.*
VIII. Tickwood.
XII. Shirlett.

R. aurata, *Fr.*
XII. Wyre Forest.

R. consobrina, *Fr.*
XII. Wyre Forest.

Marasmius peronatus, *Fr.*
VIII. Wenlock Edge.

M. ramealis, *Fr.*
VIII. Tickwood.

M. androsaceus, *Fr.*
XII. Shirlett, on decaying oak leaves.

Lentinus lepideus, *Fr.*
IX. On sleepers Bishop's Castle Railway, Plowden.

Boletus variegatus, *Swartz.*
XII. Stocking Mounts, Broseley.

B. piperatus, *Bull.*
XIII. Wrekin.

B. granulatus, *L.*
VIII. Wenlock Edge.

B. pachypus *var.* **candicans**, *Fr.*
XII. Wyre Forest.

Polyporus rufescens, *Fr.*
IV. Bomere.

P. varius, *Fr.*
XII. Linley Brook, on alder.

P. radiatus, *Fr.*
XII. Wyre Forest.
XIII. Wrekin.

Trametes Bulliardi, *Fr.*
XII. Wyre Forest, on alder.

Daedalea confragosa, *Pers.*
XII. Shirlett, on mountain ash.

Hydnum auriscalpium, *L.*
VIII. On fallen fir cones, Wenlock.
XII. Benthall.

Clavaria muscoides, *L.*
VIII. Tickwood, very abundant.

C. ligula, *Fr.*
XII. Wyre Forest.

Cyphella capula, *Fr.*
XII. Benthall, on decayed burdock stems.

Geaster rufescens, *Pers.*
XII. In garden at Benthall.

G. fimbriatum, *Fr.*
VIII. Tickwood.

Lycoperdon excipuliforme, *Scop.*
XII. Wyre Forest.
VIII. Wenlock Edge.

L. saccatum, *Vahl.*
XII. Rabbit Warren, Shirlett.

L. velatum, *Vitt.*
XII. Hawthorn Dingle, Oct. 25th, 1902.

This was the first record for Britain and appeared in the Transactions Brit. Myc. Soc. Since then it has been taken in two other districts.

L. perlatum, *Pers.*
VIII. Wenlock Edge.
XII. Wyre Forest.

Helvella lacunosa, *Afz.*
VIII. Tickwood, attaining a very abnormal size.

Geoglossum hirsutum, *Pers.*
VIII. Tickwood, in abundance.

G. glutinosum, *Pers.*
XII. Benthall.

SAPROLEGNIACEÆ.

Apodya lactea, *Cornu.*
IV. In a road-side ditch at Plealey. *Hamilton.*

ALGÆ.

Collected by W. P. Hamilton unless otherwise stated.

Pleurococcus angulosus (*Cord.*) *Meneg.*
VIII. In a tank at Wrentnall.

Raphidium falcatum (*Cord.*) *Cooke.*
VIII. In a tank at Wrentnall.

Spyrogyra codensata (*Vaach.*) *Kutz.*
IV. In a ditch at Highfields.

S. longata (*Vauch*) *Kutz.*
IV. In a ditch at Highfields.

Cladophora fracta (*Dillw.*) *Kutz.*
II. The Canal, Shrewsbury.

C. flavescens (*Dillw.*) *Ag.*
IV. In the dog trough of a conduit on Kingsland.

Œdogonium vernale (*Hass.*) *Wittr* (probably)
IV. Pool at Highfields.

Draparnaldia glomerata (*Vauch.*) *Ag.*
IV. Road-side ditch at Plealey.

Nostoc commune, *Vauch.*
IV. Footpath on Kingsland.

Oscillaria muscorum, *Carm. M.S.S.*
IV. The Lydd Hole stream.

O. limosa, *Ag.*
IV. In a puddle near Bomere farm. *H. J. Hamilton.*

O. nigra, *Vauch.*
IV. Pontesford Hill.

Batrachospermum moniliforme, *Roth.*
VIII. In a stream on Benthall Edge.

ZOOLOGY.

For Ornithologists the most noteworthy event of the year 1903 is the discovery of the Dartford Warbler breeding at Ludlow. Hitherto this interesting little bird had not been ascertained to nest anywhere so far to the N.W. It has since transpired though that a pair did nest on Cannock Chase some years ago (see *Zoologist.*)

The cold rainy summer had the effect of delaying the arrival of many of the migrants, whilst even after they had taken up their quarters here they were remarkably silent. The Cuckoo and Chiffchaff were particularly noticeable in this respect. On the other hand the autumn was very mild so that Noctule Bats continued to fly up to the unprecedented date November 12th, and Swifts were observed on October 22nd—quite a month after the usual date of departure.

A Pine Marten was taken at Llanfyllin, though locally extinct for many years back. Several Otters were observed in the Severn in the midst of Shrewsbury, and stayed for some time: the species appears to be on the increase throughout the district.

In North Wales we have several interesting records, the most remarkable being the breeding of the White Wagtail at Criccieth, and the occurrence of the Stone Curlew at Towyn: It had not previously been recorded in this part of the kingdom.

Several Waxwings were shot at Minsterley in December; more than 30 years after the last specimens were obtained in Shropshire. Early in the winter there was a considerable influx of wild ducks into the district including Pintails, Shovelers, Scaup, Smew, and Red-breasted Merganser; whilst the local breeding colony of Tufted Ducks showed a marked increase. A Brent Goose was shot at Cressage in January; this is one of the rarest of its tribe in Shropshire. Amongst other locally uncommon species we have notes of occurrence of the Pomatorhine Skua, Redshank, Black Tern, Green Sandpiper, Grey Phalarope, Spotted Crake, Bittern, Shag, Peregrine Falcon, Corn Bunting, and Mealy Redpoll. The record includes several notes on Fishes—a branch of study too much neglected by the majority of Field Clubs.

H. E. FORREST.

MAMMALS.

Vesperugo noctula (Noctule). *Elliott.* March 21st—Nov. 11th. Bewdley. *Forrest.* Nov. 12th, Meole. It is probably unprecedented to find Noctules flying around so late in the year as November: on the 11th and 12th the weather was very warm, though wet. *T. A. Coward.* March 20th, Knutsford. *Ruddy.* September 21st, two flying, Palè.

Vesperugo pipistrellus (Pipistrelle). *Oswestry Advertizer.* February 16th. Flying 6 p.m., Llynclys and Llansaintffraid.

V. nattereri (Natterer's Bat). **Rhinolophus hipposideros** (Lesser Horse-shoe Bat) } *Forrest.* Aug. 28th, received from Mr. T. W. Proger, taken St. Davids.

V. mystacinus (Whiskered Bat). *Elliott.* May 17th. One taken flying about in front of house at Dowles, 2 p.m.

Plecotus auritus (Long-eared Bat). *V. P. Lort.* Aug. 22nd. Sent box containing 21 from Bangor.

Crossopus fodiens (Water Shrew). *Ruddy.* May 27th and 30th. Seen in different localities, Palè. *Oldham.* Skull in owl pellet, Llanerchymedd, Anglesey.

Talpa europœa (Mole). *Cooke.* May 25th. Cream-coloured variety, Longdon Common: October 1st, pearl-grey variety with golden underparts, Ditton Priors. *Ruddy.* Jan. 7th seen swimming through flood water, Palè.

Martes sylvaticus (Pine Marten). *J. Hamer-Jones.* July 16th. One trapped Llwyn, Llanfyllin.

Mustela putorius (Polecat). *J. A. P. Crompton.* One seen to kill rabbit on Heath near Bewdley in Aug. 1901. One seen in Wyre Forest near Button Oak in March, 1902.

M. erminea, (Stoat). *Forrest.* May; Stoat (near Bomere Pool) playing with rabbit instead of killing it, running away and returning over and over again, giving repeated bites on the head till there was a large hole, but wound not mortal, rabbit at length picked up and killed by keeper who was watching the unequal combat.

Meles taxus (Badger). *Potts.* Many in Caughley Woods, one caught in September. *Cooke.* Nov. 2nd, female 31lbs, Longner. *J. Hamer Jones.* March, pair caught, Bettws, Newtown.

Lutra vulgaris (Otter). *Forrest.* May 4th. One below English Bridge, Shrewsbury, for about a fortnight. May 27th, large male killed, Leebotwood. Oct. 16th, young one killed by dog at Berwick. Nov. 29—Dec. 1, pair with three young in Severn below English Bridge, probably flooded out of their holt on one of the smaller streams. *Potts.* Nov. 26th, Wroxeter, several about this part of Severn. *Kempster.* Increased on Tanat, &c.; floods prevented hunting last season.

Phoca vitulina (Common Seal). *Forrest.* June 26th. One shot Puffin Island.

Sciurus vulgaris (Squirrel). *Cooke.* Sept. Adult from Montgomery with only one fore limb, appeared never to have had but one, yet was fat and healthy. *Forrest.* From various correspondents I have compiled the following list of articles on which the squirrel has been known to feed—Nuts, Beechmast, Haws, Leaf-buds, Bark, Mushrooms, Fungi (reputed poisonous), Cherries, Apricots, Strawberries, Pears, Birds, Eggs, Acorns, Fir-cones, Sycamore seeds, Indian Corn, Daffodils, Crocuses (the whole plant, not only bulbs), Plantain, Bulbils of Lesser Celandine, and "Ant's Eggs."

Muscardinus avellanarius (Dormouse). *Forrest.* Sept. 15. Nest and 5 new-born young, Betton. *Ruddy.* Aug. 23rd, new-born young, Palè.

BIRDS.

Turdus musicus (Song Thrush). *Forrest.* Feb. 12th, Nest 3 eggs, Merrington. March 29th, hen sitting on 4 eggs, Pulley. *Hutchinson.* April 18th, Thrush sitting on nest and eggs of Blackbird, Little Orme.

T. pilaris (Fieldfare). *Elliott.* Oct. 18th. ten passing W., Dowles. *Forrest.* Sept. 9th, flock of 30 to 40 on field, Bayston Hill, left next day; none seen for a month after; a remarkably early date. *Sankey.* April 21st, flock of 24 flying over Boreatton. Nov. 3rd, flying E. *Ruddy.* April 16th, large flock Palè.

T. iliacus (Redwing). *Elliott.* October 11th. Several passed over Dowles. *Lees.* Oct. 23rd, Oswestry. *Cummings.* Oct. 17th, Chester. *Sankey.* Oct. 20th, flying S., Boreatton.

T. merula (Blackbird). *Cummings.* April 30th. Nest inside old nest of Magpie in holly bush, Little Stretton. *Cureton.* Nov. 25th, pied specimen, Berwick Wharf, Atcham. *Cooke.* December 3rd, pure white specimen, but with dark eyes, Oswestry. *Forrest.* Dec. 29th, pied one in garden, Bayston Hill. *Palmer.* April 20th, clutch of blue eggs without spots, Ludlow.

T. torquatus (Ring Ouzel). *Cooke.* September 12th. Immature cock and hen, killed Haughmond Hill, Shrewsbury; a new locality if bred there. *Ruddy.* April 5th, Palè. *Palmer.* Aug. 1st, pair with 5 young on Titterstone Clee Hill.

Saxicola œnanthe (Wheatear). *Hutchinson.* March 25th. Llandudno. *Sankey.* March 31st, Boreatton, female killed against window. *Lees.* April 8th, Glanyrafon.

Pratincola rupetra (Whinchat). *Elliott.* May 1st—Sept. 18th, Dowles. *Lees* May 22nd, Oswestry. *W. B. Halhed.* July 16th, one caught on fisherman's fly, Llanrwst. *Meares.* May 25th, two pairs, Hadnall.

P. rubicola (Stonechat). *Forrest.* February 28th. Female shot by Mr. A. Groom, Whittington. *Elliott.* Sept. 30th, Dowles. *Hutchinson.* April 9th, nest 5 eggs on Little Orme. *Cummings,* April 28th, pair in Ashes Valley, Church Stretton.

Ruticilla phœnicurus (Redstart). *Elliott.* April 19th—Sept. 1st. Dowles. *Potts.* Numerous; Three nests close together Shirlet (one 8 eggs). Three nests in old tins and one in pipe, Tickwood Hall Gardens. *Meares.* May 28th. Nests 5 and 6 eggs, Clive. *Sankey.* April 28th. Boreatton. *Palmer.* May 28th. Nest 6 eggs and Cuckoo's egg. Ludlow.

Daulias luscinia (Nightingale.) *Elliott.* May 1st. Bewdley. *Pelham.* May 7th. Harnage and Venn's Bank. *Potts.* Several about Broseley. May 26th. Heard four within 150 yards near Linley Station.

Sylvia cinerea (Whitethroat). *Elliott.* May 5th. Dowles. *Potts.* April 28th. Benthall, *Ruddy.* June 9th. Nest *six* eggs, Llandderfel. *Kempster.* April 27th. Llansaintffraid. *Hodges.* May 1st. Ellesmere.

S. curruca (Lesser Whitethroat). *Elliott.* May 1st—Sept. 15th. Dowles *Forrest.* Particularly numerous about Shrewsbury and in North Shropshire, this season.

S. atricapilla (Blackcap). *Potts.* April 24th. Several Benthall. *Meares.* May 22nd. Nest 5 eggs, Hawkstone. *Ruddy.* May 14th, Palè. *Kempster.* April 27th. Llansaintffraid.

S. hortensis (Garden Warbler). *Elliott.* April 27th, Kinlet. *Potts.* May 4th. Benthall. *Ruddy.* May 10th—Aug. 26th. Palè; left early this year. *Hodges.* May 1st. Ellesmere, more numerous than usual this year.

S. undata (Dartford Warbler). *Forrest.* In the autumn of 1902, Mr. J. G. Lang of Ludlow saw some small birds in a gorsy patch near Ludlow, which he could not identify at the time. In May 1903 he found them again, and got close enough to see them well, and so determine the species—Dartford Warbler. They were evidently breeding and on June 17th, Mr. J. Palmer found the nest with 5 eggs. Mr. Lang discovered that there were two pairs, and the second pair reared a brood, for he saw the four young birds at the beginning of September. This is a new record for Shropshire. Hitherto the species was not known to occur so far to the N.W. as Shropshire, neither has it been recognised in Herefordshire nor in any part of Wales.

Regulus cristatus (Gold Crest). *Forrest.* Nov. 26th. Brought in alive by Miss Smythe's cat at Trysull, Wolverhampton. During December, many Gold Crests in gardens, etc. where they are not usually seen—probably immigrants. *Leeke.* Dec. 19th. Female feeding on Aphides in garden, Abbey Vicarage, Shrewsbury.

Phylloscopus rufus (Chiffchaff). *Elliott.* Mar. 25th—Sept. 29th. Bewdley. *Hutchinson.* Mar. 29th. Llandudno, several. *Lees.* April 6th. Oswestry. *Benson.* April 10th. Pulverbatch. *Potts.* May 21st. Nest in holly hedge, 4ft. up, Benthall. March 24th first observed. *Sankey.* April 22nd, seen at Borcatton. *Hodges.* Mar. 29th. Ellesmere. *Palmer.* May 31st. Nest 5 eggs and Cuckoo's egg.

P. trochilus (Willow Wren). *Elliott.* April 10th. Bewdley. *Benson.* April 9th—May 17th. Nest 7 hard sat eggs. Pulverbatch. *Forrest.* April 23rd. Amlwch, Anglesey. April 28th, Myddle. *Potts.* Mar. 26th. Benthall.—early date. *Kempster.* April 27th. Llansaintffraid. *Hodges.* April 14th. Harmer Hill. *Palmer.* May 31st. 6 eggs and Cuckoo's egg.

P. sibilatrix (Wood Wren). *Elliott.* May 2nd. Dowles. *Forrest.* May 24th. Bomere: fewer this year. *Potts.* Numerous Broseley. *Meares.* Greatly increased in N. Shropshire recent years. June 1st. Nests 6 and 4 eggs, Clive. *Ruddy.* May 7th. Palè. *Hodges.* May 3rd. Near Ellesmere.

Acrocephalus phragmitis (Sedge Warbler). *Elliott.* April 28th—Sept. 11th, Bewdley. *Forrest.* May 3rd. Aberdovey. *Ruddy.* May 8th. Palè.

Locustella nœvia (Grasshopper Warbler) *Forrest.* April 28th. Heard 10 p.m. at Shrewsbury. *Palmer.* April 30th. Ludlow.

Accentor modularis (Hedge Sparrow). *Beddowes.* Feb. 11th. Finished nest at Atcham.

Parus cœruleus (Blue Tit). *Harries.* Sept. Oct. A specimen frequented garden in Belle Vue, Shrewsbury, in which the whole plumage was extremely pale, so that at a little distance it looked pure white. *Cooke.* March 26th. Similar bird shot at Berwick.

Parus palustris (Marsh Tit). *Elliott.* Noted feeding on seeds of Bryony, Wyre Forest. *Moore and others.* June 1st. Pair in wood at Nevin, new record for Lleyn.

Acredula caudata (Long-tailed Tit). *Elliott.* April 27th. Found both male and female in nest—have observed the same thing before. *Ruddy.* Flocks at Palè picking blight off trees in winter.

Sitta cœsia (Nuthatch). *Elliott.* Mar. 7th. Two calling at Dowles. *Cummings.* April 28th. Common near Marshbrook. *Forrest.* June 5th. Observed at Hyssington. *Beddowes.* April 28th. Two pairs nesting in same tree at Berwick. April 20th. Nesting in Quarry, Shrewsbury. *Palmer.* May 2nd. Nests with 9 and 8 eggs, Ludlow Castle: numerous here.

Troglodytes parvulus (Wren.) *Forrest.* March 29th. Finished nest at Pulley.

Certhia familiaris (Tree Creeper). *Forrest.* May 21st. Two nests, Shirlet, 2 and 5 eggs. *Potts.* June, nest in shed at Tickwood, between post and wall without any support. *Palmer.* More common than usual, Ludlow, many broods reared, young May 12th.

Motacilla lugubris (Pied Wagtail). *Elliott.* Sept. 25th. About 30 roosting in osiers, Bewdley.

M. alba (White Wagtail). *Hutchinson.* April 2nd. Pair on Little Orme, and on 8th one at Deganwy. *Masefield.* July 18th. Pair and young near shore W. of Criccieth. *Palmer.* Jan. 24th. One seen in Ludlow, streets, 9-30 and 10-40 a.m., feeding with sparrows. Broods reared in two places near Ludlow this year. As this species is generally regarded as a summer migrant, its occurence in mid-winter is very remarkable.

M. rali (Yellow Wagtail). *Elliott.* Sept. 7th. One by Severn, Bewdley. *Freeman.* June 12th, nest and young, Hope Valley. *Ruddy.* June 5th, nest 5 eggs in meadow, and another 6 eggs under drift wood by river Dee, Llanderfel, last seen Aug. 22nd.

Anthus trivialis (Tree Pipit). *Elliott.* April 10th. In song, at Dowles. May 20th, nest 6 eggs. *Forrest.* April 23th, several near Shrewsbury. June 1st. pair Mervin. *Sankey.* April 23rd. Boreatton. *Kempster.* April 27th, Llansaintffraid. *Hodges.* April 14th, Ellesmere.

Lanius collurio (Red-backed Shrike). *Elliott.* May 7th. Heard Bewdley. *Forrest.* July 26th, feeding fledged young, Pulley Common. *Palmer.* June 9th, nest 5 eggs, Ludlow. Scarce and late this year.

Ampelis garrulus (Waxwing). *Cooke.* Dec. 9th. Two young males shot near Minsterley. *W. A. Wilkinson.* Dec. 12th, one received by Spicer, Taxidermist, Birmingham, from Snailbeach.

Muscicapa grisola (Spotted Flycatcher). *Elliott.* May 10—Sept. 8th, Dowles. *Potts.* May 15th. Benthall. *Meares.* May 20th. Clive.

M. atricapilla (Pied Wagtail). *Palmer.* June 1st. Nest 7 eggs, Ludlow. *Ruddy.* May 2nd. Palè.

Hirundo rustica (Swallow). *Elliott.* April 11th—Oct. 16th. Bewdley. *Horton.* April 15th. Cound. Oct. 18th. Wenlock. *Forrest.* April 23rd. Seen Awlwch, Anglesey. April 21st. One at Bayston Hill; a lot on Sundorne Pool; but none in Shrewsbury. April 28th. Numbers at Colwyn Bay. Oct. 6. One at Meole. Oct. 9th. Numbers at Stafford. *Potts.* April 20th. Benthall. *Sankey.* April 20th. Boreatton. *Beddowes.* April 22nd. Two Atcham; 25th, twelve. *Kempster.* April 1st—Oct. 17th. Llansaintffraid.

Hirundo urbica (House Martin). *Elliott.* May 7th—Oct 16th. Bewdley. *Lees.* April 6th. Llansaintffraid. *Forrest.* May 9. Numerous Shrewsbury. *Potts.* Aug. 22nd. Young hatched Benthall. *Forrest.* July 20th. Second Nest Bayston Hill, built in 24 hours by old birds assisted by 3 young belonging to first brood: later on these helped to feed the second brood of three when hatched; bulk left Shrewsbury Oct. 5th. *Horton.* Oct. 19th. Two at Wenlock. *Harrison.* Nov. 18th Several Welshpool. *Sankey.* May 4th. Boreatton.

H. riparia (Sand Martin). *Elliott.* March 23rd. Five over Severn at Dowles. *Oswestry Advertizer.* March 23rd. Two at Ellesmere. *T. A. Coward.* March 25th. Redes Mere, Cheshire. *Sankey.* April 9th. Ruyton. *Kempster.* April 19th. Llansaintffraid. *Hodges.* April 14th. Ellesmere.

Coccothraustes vulgaris (Hawfinch). *Benson.* May 8th. Pair Condover. *Forrest.* May 24th. Nest two eggs in elder bush, Showmere; first observed in this immediate district. *W. Lester Smith.* Regular winter visitor and a few resident at Bangor; new record for Carnarvonshire. *Forrest.* Sept. 26th. Received from Abermule. *Lees.* Dec. 26th. Llynclys. *Beddowes.* April 29th. Nests at Grinshill and Harmer Hill. *Ruddy.* April 9th. Ruthin; May, two at Rûg near Corwen. *Palmer.* Very scarce this year about Ludlow, except in one district where on May 28th, 29th and June 1st, nests were found, each with a cuckoo's egg as in 1902.

Carduelis elegans (Goldfinch). *Elliott.* June 26th. Pair Dowles. *Benson.* Numerous about Pulverbatch. *Forrest.* Getting numerous about Bayston Hill. *Meares.* Ditto about Grinshill, nest May 18th, second brood later. *Ruddy.* Increased Llanderfel. *Palmer.* June 12th, nest 5 eggs, Ludlow.

Chrisomytris spinus (Siskin). *Fox.* Feb 9th, three shot out of flock at Ford near Shrewsbury.

Passer domesticus (Sparrow). *Forrest.* Jan. 29th. Fresh egg, Bayston Hill.

P. montana (Tree Sparrow). *Masefield.* July 10th. Observed near Criccieth. *Palmer.* Increasing about Ludlow.

Fringilla cœlebs (Chaffinch). *Benson.* May 17th. Nest in Elm 40 feet up, Pulverbatch.

Cannabina rufescens (Lesser Redpole). *Elliott.* March 8th. Five on alders at Dowles. *Forrest.* July 12th. Number seen Criccieth. *Cummings.* Aug. 8th. Dyserth. *Attlee.* July. Llanbedr. *Meares.* May. 4 nests Clive; plentiful. *Ruddy.* Increased Llanderfel, several nests. *Palmer* Very scarce about Ludlow this year.

C. linaria (Mealy Redpole). *Fox.* Feb. 9th. One with flock of Lesser Redpoles at Ford, near Shrewsbury.

C. flavirostris (Twite). *Ruddy.* April 23rd, and Nov. 15th. Large flock on Berwyns.

Loxia curvirostra (Crossbill). *Ruddy.* April 19th, and several times after saw small party at Palè. June 9th, one on larch. July 21st, seven. Aug. 25th and Oct. 15th, two. *Hodges.* Seen again in garden at Burwarton during December, 1903. *Meredith.* Dec. 24th. Seen in garden at Kinnerley.

Emberiza miliaria (Corn Bunting). *Elliott.* April 30th One singing at Dowles. *Palmer.* June 6th. Nest 5 eggs and Cuckoo's egg, Ludlow.

E. cirlus (Cirl Bunting). *Cummings.* July 29th. Noted at Tremeirchion, Flintshire.

E. schœniclus (Reed Bunting). *Forrest.* June 7th. Nest 5 fresh eggs, Bomere. *Ruddy.* March 26th, returned Palè; leave district during winter. *Palmer.* May 29th. Nest 5 eggs, Ludlow.

Sturnus vulgaris (Starling). *Horton.* Pure white specimen shot early in year by Mr. Evans, Long Stanton. *Forrest.* Brood hatched, Castle Street, Shrewsbury, January 6th, perished on 8th. Nest at Bayston Hill, young hatched about 4th March. July 10th, observed in flocks W. coast of Wales. October 21st, immense flock flying W., Shelton, Shrewsbury. *Cobbold.* May. Several eggs found on lawn, not laid in nest. *Hodges.* Nest with young at Deuxhill near Bridgnorth in December, 1902.

Corvus frugilegus (Rook). *Sankey.* April 10th. Young hatched, Boreatton. *Beddowes.* April 19th. Ditto, Berwick. *Ruddy.* March 6th. Began repairing nests, Palè.

C. corax (Raven). *Forrest.* June 1st. Bird and nest seen, but no eggs, cliff N. of Nevin. July 20th. Three seen S.W. Anglesea. *Kempster.* June 30th. Saw two near Berwyns.

C. monedula (Jackdaw). *Palmer.* Very large open nest in Scotch Fir, Ludlow; the dense foliage forming a dome over it.

C. cornix (Hooded Crow). *Hodges.* April. Saw one near Cleobury North being chased by a Lapwing.

Garrulus glandarius (Jay). *Moore and others.* June 1st. Nest 4 eggs at Nevin. *Ruddy.* Sept. 18th. Several Llandderfel.

Alauda arvensis (Skylark). *Elliott.* Nov. 8th. Flock of about 30. Dowles.

A. arborea (Woodlark). *Sankey.* April 28th. Boreatton Park. *J. W. Lloyd.* Nest found near Craven Arms, about 1891. *J. M. Pearson* in *Oswestry Advertizer, 30th Dec.* Nest Oswestry Racecourse about 1898.

Cypselus apus (Swift). *Elliott.* May 3rd. One seen; 9th many, Bewdley. Newly dropped egg found on path Bewdley, July 9th. *Lees.* May 6th. Shrewsbury. *Potts.* May 6th—Sept. 4th. Benthall. *Horton.* Aug. 26th. Wenlock. *Forrest.* May 13th—Aug. 27th. Shrewsbury; one seen Sept. 6th, one Oct. 21st, and one Oct. 22nd. *Kempster.* May 8th. first seen. Aug. 31st. Left Llansaintffraid. *G. D. Harrison.* Sept. 1st. Large flock Welshpool, one on 3rd. *Masefield.* Sept. 11th. Stoke. *A. Groom.* May 13th—Sept. 3rd, Berghill, Oswestry. *Sankey.* May 4th. Boreatton. *Ruddy.* May 16th. Palè; late. *Hodges.* May 3rd. Near Ellesmere.

Caprimulgus europœus (Nightjar). *Elliott.* May 20th. Heard Dowles. Sept. 4th. Flushed, Wribbenhall. *Forrest.* May 17th. Flushed, Shirlet.

Dendrocopus major (Great Spotted Woodpecker.) *Cummings* April 28th. Seen to get up from ground, Church Stretton. *Rev. E. Brown.* Dec. One shot at Montgomery.

Dendrocopus minor (Lesser Spotted Woodpecker). *Elliott.* Mar. 20th. Pair Bewdley bridge; 21st, pair at Dowles. *Ruddy.* April 10th. One seen Palè. *Palmer.* Several broods reared, Ludlow.

Iynx torquilla (Wryneck). *Elliott.* April 13th—Aug. 13th. Dowles. May 10th. Flushed from self-excavated hole in willow. *Joynson.* June 15th. One brought in by Spaniel, Bridgnorth. *Potts.* June. Pair near Jackfield. May 28th. Male seen near Bridgnorth.

Cuculus canorus (Cuckoo). *Elliott.* April 25th. Dowles. *Forrest.* April 18th. Heard Leaton. April 20th. One seen, Rhyl. *Edwards.* May 3rd Bala. *Lees.* May 22nd. Oswestry. *Freeman.* May 30th. Changed note heard, Radbrook, *Potts.* April 20th. One seen flying S. Broseley: not heard till 28th. *Cooke.* Sept. 12th. Young one caught under garden netting, Berwick, Shrewsbury. *Masefield.* Sept. 6th. An old one stayed till this date at Cheadle, Staffordshire, and one at Stoke-on-Trent till the 11th. *Benson.* April 20th. Pulverbatch. May 24th. One watched at hedge-sparrow's nest with 1 egg: when cuckoo left the hedge-sparrow's egg had vanished and there was a cuckoo's egg in its place. *Tatton.* Sept. 6th. Petton. *Sankey.* April 27th. Boreatton. *Beddowes.* April 19th. Ludlow. May 7th. Egg in hedge-sparrow's nest, Marshbrook. May 17th. Egg in Redstart's nest Meole. *W. A. Wilkinson.* (Sutton Coldfield), has Cuckoo's egg with two Blackbird's eggs from nest in holly bush, near Shifnal. May 31st. He states that whenever a young Cuckoo is hatched in a Blackbird's nest it is always ejected by the rightful occupants who are quite as strong. *Ruddy.* April 22nd—June 20th. Heard Palè. *Kempster.* May 1st. Llansaintffraid. (See Corn Bunting, Hawfinch, Redstart, Willow Wren.)

Asio otus (Long-eared Owl). *Meares.* April 15th. Nest 4 eggs in Scotch fir, near Hodnet. *Palmer.* April 30th. Nest 2 eggs on old Squirrel's drey in spruce, near Ludlow.

A. accipitrinus (Short-eared Owl). *Elliott.* Oct. 17th. One flushed. Dowles. *Cooke.* Nov. 27th. One with remarkably bright plumage, Glynllifan Park, Carnarvon. *Leeke.* Dec. Flushed by shooting party in turnip field, Wenlock Road, near Shrewsbury. *Cooke.* Dec. 30th. One shot near Shrewsbury. *Cummings.* May 24th. Found breeding on bog, Anglesey. See also Coward and Oldham's notes in *Zoologist*, Jan. 1904.

Syrnium aluco (Tawny Owl). *Cooke.* Aug. 12th. Grey variety shot near Shawbury. Nov. 5th. Another Shrewsbury. Dec. 19th. Another, Wem. *Ruddy.* Mar. 27th. Nest 4 eggs in rabbit burrow, Palè. *Palmer.* April 7th. 5 eggs; common about Ludlow.

Buteo vulgaris (Buzzard). *Cooke.* Sept. 26th. Female shot Longden. *Meares.* One at Hawkstone throughout spring. *Ruddy.* Feb. 10th. One circling over moor, Palè.

Pernis apivorus (Honey Buzzard). *Cooke.* June 23rd. Shot at Muchall near Wolverhampton.

Falco peregrinus (Peregrine Falcon). *Forrest.* Dec. 30th. Very heavy muscular old female sent in from near Oswestry—rarely met with in this state. *Ruddy.* Nov. 24th. Llandrillo.

F. subbuteo (Hobby). *Palmer.* June 30th. 3 eggs in new breeding place (Ludlow), only a short distance from the old nest which had become too delapidated for breeding purposes. Birds were seen and broods reared at three other places.

Falco vespertinus (Red-footed Falcon). *T. W. Proger.* June 7th. Shot near Cardiff, new record in that district.

F. æsalon (Merlin.) *Cooke.* Dec. Female over 13 inches long—unusally large.

Phalacrocorax carbo (Cormorant) *Forrest.* Aug. 4th. Shot Betton Pool. *Tower and others.* Three took up their quarters on the mere at Ellesmere towards the end of October, and remained a long time. *Ruddy.* Jan. 17th—Sept. 12th. One on Dee, Llandderfel.

P. graculus (Shag). *Cooke.* Sept. 29th. Immature shot near Half-way House, Westbury.

Botaurus stellaris (Bittern). *Cooke.* Jan. 23rd. Male shot near Baschurch, stomach contained small perch.

Bernicia brenta (Brent Goose). *Horton.* Jan. 12th. Female, Cressage, identified from wing brought to Mr. Forrest.

Anser .. .. (Wild Goose). *Potts.* Oct. 7. Large flock passing S. along Severn at Broseley 6-30 p.m.

Querquedula crecca (Teal). *Forrest.* May 28th. Nests on Sandford Pool, Whitchurch.

Dafila acuta (Pintail). *Forrest.* Oct. 23rd. Female and young shot by Mr. Wingfield, on Onslow decoy. *Tower.* Oct. 28th. Pair and drake with two ducks, Ellesmere.

Spatula clypeata (Shoveler). *Forrest.* Oct. 23rd, 24th. Several shot by Mr. Wingfield, on Onslow decoy, mostly rather young birds. *Oldham.* Oct. 24th. Several Knutsford. *Serjeantson.* Nov. 21st. Adult pair shot, Betton Pool, keeper saw 10 there short time previously.

Fuligula ferina (Pochard). *Tatton.* Nov. 24th. Nearly 100 on pool. Petton Park. *Cooke.* Dec. 28th. Shot Chirbury. *Ruddy.* April 20th. One on Dee, Llanderfel.

F. cristata (Tufted Duck). *Forrest.* May 28th. Breeding colony near Whitchurch, increased to 12 pairs. *O. V. Aplin.* in the *Zoologist* records a drake and two ducks on Bala Lake during latter part of July. *Ruddy.* Sept. 1st. One on Dee, Llanderfel.

F. marila (Scaup Duck). *Tower.* Party on Ellesmere mere for a week early in October. *Groom.* Jan. Two females and one male on pool, Berghill, Oswestry.

Mergus albellus (Smew). *Cooke.* Feb 3rd. Young male assuming adult plumage, Ensdon.

M. serrator (Red-breasted Merganser). *G. D. Harrison.* Dec. 7th. Shot by Mr. Verdon on Severn above Welshpool. *Cooke.* Dec. 28th. Male. Towyn. *Coward.* Nov. 1—7. Female on Tatton mere, Cheshire. *Ruddy.* Jan. 17th. Two on Dee, Llanderfel.

Columba palumbus (Ring Dove). *Horton.* Dec. 23rd. Cinamon-coloured variety shot, Harley.

Turtur communis (Turtle Dove). *Elliott.* May 17th. Trimpley. Sept. 1st. Wribbenhall. *Potts.* Numerous, Broseley. *Ruddy.* May 21st. Heard up to June 20th, Llanderfel.

Coturnix communis (Quail). *Cooke.* June 12th. Shot, Wenlock.

Caccabis rufa (Red-legged Partridge). *Elliott.* July 1st. One calling, Dowles.

Phasianus torquatus (Pheasant). *Forrest.* Oct. 20th. Pure white, shot at Berwick.

Tetrao tetrix (Black Grouse). *Ruddy.* September 23rd. Pair shot and others seen Palè moor, in birch-clad dingle, facing S.

Lagopus scoticus (Red Grouse). *Cooke.* Aug. 14th. Curious mottled variety shot, Ratlinghope.

Crex pratensis (Cornerake). *Elliott.* May 1st. Dowles. *Lees.* May 8th. Oswestry. *Potts.* May 4th. Benthall. *Meares.* May 20th. Hadnall. *Sankey.* May 1st. Boreatton. *Kempster.* May 7th. Llansaintffraid.

Rallus aquaticus (Water Rail). *Cooke.* Dec. 3rd. Plowden. And several others during the month from different parts of Shropshire.

Porzana maruetta (Spotted Crake). *Cooke.* Sept. 10th. Killed against telegraph wires, Baschurch.

Gallinula chloropus (Moorhen). *Irwin.* Nest at Pulley on top of last year's nest which had been flooded; raised thus it escaped flooding this year.

Porphyrio cœruleus (Purple Gallinule). *Cooke.* May 20th. One shot by Keeper, Dee bank, Overton.

Œdicnemus scolopax (Stone Curlew). *Kirkby.* Jan. 6th. Adult shot Towyn. New record for N. Wales.

Vanellus cristatus (Peewit). *Forrest.* July 2nd. About 100 together, early to flock.

Ægialitis hiaticula (Ringed Plover). *Ruddy.* May 8th. One on Dee, Llanderfel, rare inland.

Charadrius pluvialis (Golden Plover). *Potts.* Nov. 26. Two near Wroxeter. *Sankey.* December 12—17. Flight about Baschurch Station.

Phalaropus fulicarius (Grey Phalarope). *Tatton.* October 9th. Found dead near Burlton.

Gallinago cœlestis (Common Snipe). *Forrest.* June 5th. Several pairs breeding on Corndon. *Meares.* May 2nd. Nest 3 eggs, Hodnet.

Scolopax rusticula (Woodcock). *Elliott.* Exceptionally numerous this year in Wyre Forest. *Potts.* Three pairs all summer at Shirlet, one "roding" in sunshine, 7 p.m. June 1st, in Caughley Woods. *Kempster.* Dec. 3rd—10th. A large number about Llansaintffraid.

Totanos hypoleucus (Common Sandpiper). *Elliott.* May 3rd. Heard over Severn after dark, Bewdley. July 25th. Family party of six evidently migrating. *Horton.* April 15th. On Severn in Shrewsbury. *Lees.* April 17th. Oswestry. *Forrest.* April 24th, several N. Anglesey. *Meares.* May 25th. Four nests and eggs, Dorrington. *Ruddy.* April 14th. Llanderfel. *Kempster.* April 15th. Llansaintffraid. May 18th. Made nest in Tritoma bed in garden; July 5th, young ready to fly.

T. ochropus (Green Sandpiper). *Lees.* April 10th. Oswestry. *Forrest.* Dec. 31st. Immature example sent in from Wem by Mr. E. W. Bowcock, frequented stream for a week previously. Another seen same spot 2nd Jan., 1904. *Ruddy.* Sept. 14th. One on Dee, Llanderfel for 3 weeks.

T. calidris (Redshank). *Cooke.* March 13th. One shot near Wem.

Numenius arquata (Curlew). *Forrest.* June 5th. Several pairs on Corndon, evidently nesting there. *Ruddy.* Feb 16th. Two on Palè moor, early to return. *Palmer.* Several nests in Ludlow district.

N. phœopus (Whimbrel). *Cooke.* Oct. 16th. One shot, Wrenbury.

Sterna fluviatilis (Common Tern). *Elliott.* June 16th. One flying down Severn, Bewdley, and another on July 8th at Round Oak, July 8th (? species). *Forrest.* June 11th. Numbers of common and Arctic Terns on Menai Straits. July 22nd. Large breeding colony on rocky islet S.W. Anglesea, eggs and young in all stages; many dead young and rotten eggs, probably effects of storm.

S. macrurus (Arctic Tern). *Forrest.* See above.

Hydrochelidon nigra (Black Tern). *Cooke.* June 2nd. Shot on Crosemere, by Mr. C. G. Robinson.

Larus argentabus (Herring Gull). *Forrest.* Feb. 16th. Two at English Bridge, Shrewsbury. *Elliott.* June 24th. One passing E. over Dowles (? species). *Cooke.* Oct. 12th. Immature, Atcham. Oct. 21st. One Shelton.

L. ridibundus (Black-headed Gull). *Potts.* June 29th. Three flying South, Broseley. Oct. 17th. Flock on flood water, Cressage. *Forrest.* July 26th. Two flying N. Bayston Hill. *Cooke.* Dec. 1st. Two immature, Worthen. *Ruddy.* Feb. 23rd. Returned to gullery near Bala.

L. fuscus (Lesser Black-backed Gull). *Cooke,* Aug. 1st. One in its third year, Bridgnorth. *Ruddy.* April 18th. Fifteen flying N. over Llanderfel.

L. marinus (Great Black-backed Gull). *Elliott.* May 2nd. Three seen passing N. over Wyre Forest; from the repeated cry of one, believed to be this species. *Ruddy.* May 2nd. One on Dee at Llanderfel, never seen here before.

Rissa tridactyla (Kittiwake). *Cooke.* Jan. 24th. Immature, Merrington. *Forrest.* April 20th. Five flying N., Bayston Hill.

Stercorarius pomatorhinus (Pomatorhine Skua). *Cooke.* Oct. 28th. Immature shot near Shrewsbury; presented to Shrewsbury Museum.

S. crepidatus (Richardson's Skua). *Forrest.* July 12. Found dead on shore at Pwllheli, by Dr. McAldowie.

Podicipes cristatus (Great Crested Grebe). *Forrest.* Pair on Betton Pool, reared 3 young. Sept 10th. Old and young on Colemere, Ellesmere. *Meares* Pair at Hawkstone.

REPTILES & AMPHIBIANS.

Tropidonotus natrix (Ring Snake). *Oswestry Advertizer.* May 27th. Specimen 3ft. 1in. at Forden. Aug. One about 3ft: long, dead on Moel-y-golfa—said to have been killed by a cock pheasant.

Lacerta vivipara (Lizard). *Ruddy.* Seen on Berwyns 1400 ft. elevation

Rana temporaria (Frog). *Kempster.* Feb. 20th. Spawning in ponds, Llansaintffraid.

Bufo vulgaris (Toad). *Forrest.* Mar. 29th. Spawning, Bewdley.

FISHES.

Cottus bubalis (Fatherlasher). Liparis vulgaris (Sea Snail). Nerophis œquoreus (Ocean Pipefish). Crenilabrus melops (Connor) and other marine fish received by Mr. Forrest from Mr. Laisters F. Lort, who took them in the Menai Straits. All now in Bangor University Museum.

Trigla lyra (Piper Gurnard). *White.* July 6th. Taken at Aberffraw, Anglesey, by Dick Williams. Now in Bangor University Museum.

Zeugopterus punctatus (Topknot). *Forrest.* May 11th. Received from Mr. R. D. Williams, Aberffraw, Anglesey, This is now in Bangor University Museum, as is also a specimen of Zeugopterus unimaculatus captured in same district in November (*Prof. White.*)

Cyprinus carpio (Carp) *Forrest.* Dec 26th. Very large one, estimated 20lbs, found dead in Bomere Pool.

Abramis brama (Bream). *Cooke.* Dec. 21st. 6lbs. in Severn, Atcham.

Clupea finta (Twaite Shad). *Field, 13th June.* Quantities caught in Severn at mouth of Teme and as high up as Diglis Weir.

Salmo salar (Salmon). *Kempster.* April 9th. Female full of spawn caught in net, Trederwen; larger number than usual ascended Tanat, &c. in the autumn. *Elliott.* Dec. A number in Dowles Brook, Bewdley.

S. fario (Trout) *Cooke.* Oct. 16th. One 3lbs. stranded on field, from flood water, Westbury.

S. irideus (Rainbow Trout). *Potts.* Two caught near Ironbridge.

Esox lucius (Pike). *Cooke.* Dec. 1st. 22½lbs River Tern, Walcot. Nov. 19th. 20lbs. Acton Burnell, Pool; contained remains of Tench, about 3lbs.

ENTOMOLOGY.

The Season 1903 was without doubt the very worst in the experience of the present generation of Entomologists, even worse than 1902; many species, usually more or less common, either not being observed at all or only in very scanty numbers, and even then generally very much later than usual. In consequence larvae and pupae were so scarce in the latter half of the year that grave fears are entertained for future years.

However even 1903 had its redeeming features; the most noteworthy, perhaps, being the appearance of Vanessa Cardui (Painted Lady Butterfly) in unusually large numbers in September: this was noticeable in many parts of the kingdom.

I regret being still unable to inaugurate any systematic method of recording, which I hope to do on the appearance of the Victoria History of Shropshire; but the following list includes insects either (1) considered worthy of notice, or (2) which do not appear from previous Records to have been noted in their respective districts; among the former may be mentioned Sphinx Convolvuli, Scotosia Certata, Platypteryx hamula (binaria) and the uncertain Macroglossa Stellatarum. I shall be pleased to correspond with any Shropshire Entomologists with whom I have not previously had the pleasure of doing so.

I have to thank Mr. F. B. Newnham (Church Stretton), and Mr. Carleton Rea (Worcester), for their kindness in determining several insects for me.

GEORGE POTTS.

BUTTERFLIES.

Epinephele Tithonus (Large Heath). Near Baschurch. *Potts.*

Vanessa Cardui (Painted Lady). Reported numerous at Boreatton Park by *Dr. Sankey*; at Ellesmere by *Thompson*; at Kenley by *Allen*; and observed frequently at Benthall and Broseley and several other parts of the county by self. *Potts.*

V. C. Album (Comma) Ellesmere. *Thompson.*

Lycaena Argiolus (Azure Blue). Ellesmere. *Thompson.*

" " " Benthall. *Potts.*

MOTHS.

Sphinx Convolvuli (Convolvulus Hawk Moth). Oct. 4th. Ellesmere. *Thompson.*

Macroglossa Stellatarum (Humming Bird Hawk Moth). Benthall Edge. *Potts.*

Zygaena Lonicerae (Narrow Bordered Five Spotted Burnet). Near Aldenham. *Potts.*

Bombyx Callunæ (Heath or Northern Eggar). Bayston Hill. *Forrest.*

Hepialus Hecta (Gold Swift). Willey Park. *Potts.*

H. Velleda (Northern Swift). Benthall. *Potts.*

Cossus Ligniperda (Goat Moth). Larvae at Ellesmere. *Thompson.*

,, ,, ,, Ditto at Broseley. *Potts.*

Platypteryx Hamula (Binaria). (Oak Hook Tip). Market Drayton. *Woodforde.*

Thyatira Batis (Peach Blossom). Benthall. *Potts.*

Chortodes (Miana) Arcuosa (Small Dotted Buff.) Benthall. *Potts.*

Xylophasia Rurea (Clouded Brindle). Benthall. *Allen.*

Cabera Pusaria (Common White Wave). Benthall. *Potts & Allen.*

Panagra (Lozogramma) Petraria (Brown Silver Line). Shirlet. *Potts.*

Fidonia Atomaria (Common Heath). Shirlet. *Potts.*

Hybernia Rupicapraria (Early Moth). Benthall. *Potts.*

H. Progemmaria (Dotted Umber). Benthall. *Potts.*

Anysopteryx Aescularia (March Moth). Benthall. *Potts.*

Oporabia Dilutata (November Moth). Benthall. *Potts.*

Larentia Didymata (Twin Spot Carpet). Benthall. *Potts & Allen.*

L. Viridaria (Pectinitaria) (Green Carpet). Benthall. *Potts & Allen.*

Eupithecia Venosata (Netted Pug). Benthall. *Potts.*

E. Pulchellata (Fox-glove Pug). Benthall. *Potts.*

E. Coronata (Coronet Pug). Benthall. *Potts.*

Thera Variata (Obeliscata). (Shaded Broad Bar). Benthall. *Potts.*

Melanippe Sociata (Subtristata). (Common Carpet). Benthall. *Potts.*

Anticlea Badiata (Shoulder Stripe). Benthall. *Potts.*

A. Derivata (Streamer). Benthall. *Potts.*

Coremia Unidentata (Dark Barred Twin Spot Carpet). *Benthall. Potts.*

Scotosia Certata (Scarce Tissue). Common during May at Market Drayton. *Woodforde.*

Cidaria Testata (Chevron). Benthall. *Potts.*

C. Pyraliata (Associata). (Barred Straw). Benthall. *Potts.*

Eubolia Palumbaria (The Belle). Benthall Edge. *Potts & Allen.*

Anaitis Plagiata (Treble Bar). Tickwood. *Potts.*

Chesias Spartiata (The Streak). Benthall. *Potts.*

Tanagra Atrata (Chaerophyllata.) (Chimney Sweeper). Rough ground top of Edge Wood between Wenlock and Presthope. *Potts.*

Zanclognatha Tarsipennalis (Fan Foot). Benthall. *Potts.*

Pyraustra Aurata. Benthall Edge. *Potts.*

Scopula Prunalis. Benthall. *Potts.*

GEOLOGY.

The following fossils in addition to those previously recorded have been collected by the Club and others during the year.

Mr. Ruddy has again very kindly helped in the determination of the species.

The classification of the rocks is that of Lapworth. (Geology of South Shropshire, 1894)

ORDOVICIAN SYSTEM.

Caradoc or Bala Series.

LONGVILLE FLAGS GROUP.

Locality No. 86 on Club Map. Cheney Longville. Collected 16/4/03, from flaggy beds in the lane between the village and the circular earthwork to the west.

Phacops macroura (*Sjogren*), fragments plentiful, including the labrum Homalonotus bisulcatus (*Salt.*) Calymene Blumenbachii var. Caractaci (*Salt.*) Orthis Actoniæ (*Sow.*) O. calligramma (*Dalm.*) O. elegantula (*Dalm.*) O. testudinaria (*Dalm.*) O. unguis (*Sow.*) O. vespertilio (*Sow.*) Strophomena deltoidea (*Conr.*) Str. expansa (*Sow.*) Str. grandis (*Sow.*) Modiolopsis expansa (*Portl.*)

CHATWALL SANDSTONE GROUP.

Locality No. 87 on Club Map. Soudley Quarry. Collected 5/5/03, from the body of the sandstone.

Tentaculites anglicus (*Salt.*) Beyrichia complicata (*Salt.*) Phacops apiculatus (*Salt.*) Homalonotus. Discina crassa (*Hall.*) young shell. Orthis alternata (*Sow.*) O. calligramma (*Dalm.*) O. elegantula (*Dalm.*) O. porcata (*McCoy.*) Leptœna sericea (*Sow.*) Strophomena expansa (*Sow.*) Str. grandis (*Sow.*) Holopea striatella (*Sow.*) Raphistoma æqualis (*Salt.*), showing ornament.

This is the lowest horizon for the Tentaculites and the highest for the Beyrichia in the Club records.

Lower Bala Flags and Grits.

BAUSLEY BEDS (Watts.)

Probably equivalent to the Hoar Edge Grits Group of the Caradoc District.

Locality No. 88 on Club Map. Bausley Hill Farm. Collected 20/6/03, from flaggy shales west and north of the farm.

Diplograpsus rugosus (*Emm.*), and possibly another species. Glyptocrinus. Beyrichia complicata (*Salt.*) Asaphus. Trinucleus concentricus (*Eaton*). Tr. near to fimbriatus (*Murch*). Tr. perhaps seticornis. Orthis elegantula (*Dalm.*) O. vespertilio (*Sow.*) Modiolopsis modiolaris (*Conr.*) Belerophon.

CAMBRIAN SYSTEM.

Tremadoc

SHINETON SHALES.

Locality No. 89 on Club Map. Shineton Brook. Collected 16/7/03, from bed of brook, a little above the road bridge below Shineton Church.

Macrocystella mariæ (*Call.*) Primitia. Asaphellus Homfrayi (*Salt*). Platypeltis Croftii (*Call.*) Agnostus dux (*Call.*) Æglina? eyes. Conocoryphe monile (*Salt*). Conophrys Salopiensis (*Call.*) Olenus Mitchinsoni (*Thomas*). O. salteri (*Call.*) O. triarthrus (*Call.*) and possibly two other species. Holometopus elatifrons (*Ang.*) Lingulella Nicholsoni (*Call.*) Obolella Sabrinæ (*Call.*) Theca sp., *not* lineata (*Call.*). Two tetragonal plates possibly crinoidal.

The Holometopus, Æglina and Theca are not recorded in Dr. Callaway's list.

METEOROLOGY.

January.—The month opened with frost which was succeeded by rain and floods; then a spell of frosty weather set in which permitted a few days of skating. Thaw commenced on 18th; there were gales on the 25th and 26th. 13 days of frost were registered at (22). Birds began singing on 28th. Winds were principally S, S.W., also S.E.

February.—Though the first part was mild and fair, winds sprang up and continued almost without intermission through the month. There was a gale on 19th; another on 26th which was general over the Kingdom. On 21st a dust haze was noticed in many places causing rain-water to appear turbid and to throw down a muddy deposit. Not much rain—average for the County, 1·95 only; snow on 1st; wind mostly S. Westerly.

March.—The mild winds of last month continued into this and lasted most of the month, but rough gales were experienced towards the close. Winds were chiefly S. and S.W. There was a fair amount of sunshine. An inch of rain was measured at (5) (14). There was thunder and lightning on 28th.

April.—A fine bright month; there was less rain than in any other month of the year. The mild weather however gave place to cold, especially at night-time There were 11 days of frost at (22), and hail, snow and sleet on 13th. The farmers complained of a backward-sowing season the ground being so wet. Swallows were seen on 13th at (10), on 21st at (22). Cuckoo on 21st at (10), on 22nd at (22). Sandpiper on 24th at (10).

May.—The earlier portion of the month was very wet, excessive rain fell in the Oswestry district on the 5th; rain commenced at mid-day, there was hail at 2 o'clock, and much flooding, the Town itself being regularly washed out. The dull, cold forbidding weather changed to a more genial kind about the middle of the month, but even then Northerly winds prevailed. Swifts were seen on the 20th; and many Swallows and Martins

on 9th. It is noteworthy that about Easter time a few members of the Swallow family are seen, then there seems to be a period during which few are about, then the main body appear about the time stated above. Wild Hyacinths appeared about 23rd; all these notes at (10). Plum blossom much injured by frost.

June.—Cold, with a considerable amount of rain, but we were fortunate in Shropshire not to be treated to the deluges that occurred in other parts of England. At Shoeburyness, a spot which is considered to be one of the dryest in England, 6·2in. fell, Winds were chiefly N. and N.E.: of these were registered, 30 consecutive days in May and June: the hindrance to flowering plants must have been great. Clover pastures were very backward (1) There was frost on 20th doing much damage to potatoes (20), and very cold to 22nd. Frost 2 degrees on 21st at (22); frost on 21st at (29). Thunderstorms were noted on 6 days.

July.—Those were fortunate who took advantage of the first half of this month to save their hay crop, for later on rains set in and continued "right along"; there were thunderstorms on 5 days, one of exceptional severity on 18th at (10).

August.—A wet month; the extraordinary weather continued, the temperature generally being low and more like autumn. Rains, owing to the Atlantic disturbances, set in about 13th and continued till the 12th of next; very damping, no doubt, to pleasure seekers. Fruit failed to ripen; corn harvest was hindered. 2·15 of rain was registered at (7) on the 24th. The wind was, as a rule moderate, chiefly from S. and W. A gale on 9th at (22); the harvest was not commenced.

September.—Very changeable and cool weather at the commencement, culminating in a severe gale on 12th which did much damage on sea and land (Royal Meteorological Society Report). The grain harvest was gathered with difficulty; a few fine days occurred from 12th to 21st, when rain set in again. There was a good deal of lightning during the month (1); hailstorm on 12th (29).

October.—An exceedingly wet month; rain every day (18). The harvest was gathered under exceptional difficulties (1). Oswestry was again visited with a deluge, but not so severely as in May. The aggregates for this month are large. Nearly 10in. at (5), 8 at (6), the average for the County 6 35in. The wind was moderate in force, and ranged from S.E. through S. to S.W. Not much thunder or lightning and but little bright sunshine.

November.—Generally a fairly dry month and mild, the Dahlias lasted all through without being cut down (1). The weather was more settled with high Barometic pressure. A heavy fall of rain occurred on 27th, 1 inch and upwards being measured at several of our Stations. Wind moderate, chiefly from N. and N.W. There were 8 days of frost (22). Barley was out on 17th ! (4).

December.—No record in the County of as much as 1 inch rain-fall on any day; the weather was dull and sunless; a heavy fog on 5th, which was general over England. Most of the wind was from the South. The beginning and end of the month was cold; the middle mild and warm. 52° at (10). There were 11 days of frost (22).

TABLE No. 1.

MONTHLY RAINFALL RECORD.

	JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Woolstaston	2·74	2·19	4·81	1·47	4·70	3·16	3·13	5·23	3·98	6·78	2·70	2·68	43·57
Lydham Manor	3·35	2·39	4·16	2·00	3·00	2·33	3·20	3·76	3·59	7·04	2·00	2·43	39·25
Bishop's Castle	2·79	2·31	3·89	1·68	3·32	1·98	3·07	4·10	3.53	7·26	1·72	2·22	37·87
Preen Manor	2·53	2·17	3·82	1·15	3·88	2·08	2·45	4·67	3·26	5·79	2·19	2·42	36·41
Mount Reservoirs... ...	5·18	3·34	7·28	1·19	5·76	1·45	3·42	6·35	7·47	9·98	3·18	3·37	57·97
Church Stretton	2·70	2·40	5·12	1·76	4·72	3·25	4·10	5·36	4·25	8.09	2·94	3·04	47·73
Willey Park	2·17	1·78	3·86	1·49	3·78	1·45	2·83	6·18	4·07	5·96	2·08	2·18	37·83
Clunbury	3·10	2·65	5·26	1·97	2·67	2·63	2·06	4·43	3·91	7·34	1·84	2·85	40·71
Coton Hall, Bridgnorth ...	2·52	1·49	4·15	1·56	4·51	1·53	1·90	4·29	3·65	5·50	1·59	2·02	34·71
Stokesay	2·76	2·55	4·37	1·51	3·37	2·57	3·80	4·70	3·60	6·97	2·13	2·39	40·72
Pontesbury	2·41	1·74	4·01	1·14	2·89	1·80	2·57	4·66	3·76	5·88	2·13	2·17	35·16
Shifnal (Haughton Hall) (1)	2·02	1·50	4·14	1·54	2·69	1·47	1·84	5·52	3·30	5·38	2·49	2·00	33·89
Knighton Reservoir ...	1·97	1·50	3·86	1·96	2·42	1·49	2·94	4·63	4·55	6·04	3·31	1·52	36·19
Ellesmere	3·49	2·23	5·48	1·44	2·98	1·48	2·04	4·62	4·84	7·53	2·09	2·12	40·34
Bridgnorth (1)	2·81	2·00	5·35	1·65	4·42	1·29	1·86	4·92	4·21	6·93	1·99	2·86	40·29
Ashford (Ludlow) ...	3.47	2·39	4·76	1·70	3·74	3·18	2·57	4·49	3·35	7·24	1·82	2·58	41·29

TABLE No. 1—(continued.)

	JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Bromfield (1)	3·07	2·49	4·26	1·74	3·69	2·90	2·35	4·66	3·60	7·07	1·89	2·35	40·07
Bromfield (2)	3·81	2·52	4·37	1·87	3·98	3·00	2·15	4·99	3·12	6·92	1·98	2·33	41·04
Priors Halton	3·46	2·86	4·63	1·92	4·04	2·99	2·45	5·26	3·81	7·89	1·84	2·54	43·69
Newport	1·85	1·52	4·00	1·58	3·24	1·35	2·23	4·53	4·33	5·44	2·77	1·67	34·51
Shifnal (2)	1·93	1·45	4·27	1·83	2·65	1·26	1·87	5·18	3·99	5·33	2·28	1·93	33·97
Market Drayton	2·19	1·34	4·19	1·69	2·25	1·48	2·75	4·22	4·54	6·54	3·11	1·74	36·04
Bridgnorth (2)	2·52	1·69	4·13	1·60	3·38	1·41	2·07	5·21	3·83	5·63	1·55	2·14	35·16
Wem	2·66	1·46	4·11	1·34	2·95	1·13	2·53	4·43	3·85	5·76	2·27	1·64	34·13
Newport (2)	1·67	1·56	3·80	1·56	2·81	1·39	2·63	4·42	4·19	5·06	2·63	1·69	33·41
Shrewsbury (1)	1·99	1·55	3·65	1·03	2·61	1·84	2·84	4·43	3·39	5·13	2·93	1·79	33·18
Fitz	2·30	1·59	3·64	1·13	2·47	2·11	2·53	4·87	4·60	5·97	2·43	2·26	35·90
Newport (3)	1·54	1·36	3·30	1·32	2·35	1·47	2·50	4·24	4·19	4·72	2·41	1·44	30·84
Roden	1·81	1·25	3·42	1·25	2·88	1·58	2·86	4·64	3·40	5·08	2·80	2·00	32·97
Shrewsbury (2)	2·11	1·70	3·79	·99	2·55	1·89	2·70	4·35	3·80	5·57	2·97	1·82	34·24
Shrewsbury (3)	1·69	1·73	3·00	·86	2·27	1·69	2·29	3·90	3·27	5·06	2·73	1·80	30·29
Totals	80·6	60·70	132·88	46·92	102·97	60·63	80·53	147·24	123·23	196·88	72·79	67·99	1173·37
Means	2·60	1·95	4·28	1·51	3·32	1·95	2·59	4·74	3·97	6·35	2·34	2·19	37·85

TABLE No. 2.
RAINY DAYS.*

	JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Woolstaston ...	20	13	26	13	18	13	19	23	24	31	20	20	240
Bishop's Castle ...	22	14	25	12	16	11	13	17	18	30	14	16	208
Preen Nanor ...	19	12	24	10	15	10	13	16	17	26	14	14	190
Mount Reservoirs	19	13	24	10	17	10	17	22	18	31	16	17	214
Church Stretton...	22	13	28	16	17	12	18	21	19	30	17	19	232
Willey Park ...	20	10	26	12	18	8	16	18	27	29	17	15	206
Clunbury... ...	22	10	20	11	15	8	11	23	20	29	14	13	196
Bridgnorth ...	20	9	24	13	15	8	15	19	16	30	15	16	200
Stokesay	21	14	25	9	14	9	17	17	18	28	16	16	204
Pontesbury ...	13	13	23	10	15	12	17	17	15	28	14	14	191
Shifnal	15	10	20	13	14	7	13	17	15	29	17	12	182
Knighton... ...	20	11	23	15	17	8	16	18	21	29	21	18	217
Ellesmere... ...	18	13	20	11	13	8	12	14	18	29	15	12	183
Bridgnorth ...	17	7	22	10	18	8	13	16	15	26	13	12	177
Ashford, Ludlow...	24	13	23	13	17	10	15	20	19	29	18	16	227
Bromfield... ...	24	17	27	15	20	11	17	19	22	30	19	17	238
Bromfield... ...	21	12	25	11	17	9	15	18	16	31	19	15	209

TABLE No. 2—(continued.)

	JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Priors Halton ...	20	12	24	10	18	9	14	20	18	28	16	17	206
Newport	17	11	22	14	18	8	20	18	20	28	19	14	209
Shifnal	20	9	24	15	19	10	12	20	19	29	20	14	211
Market Drayton ...	17	9	22	12	15	8	16	16	19	29	18	12	193
Bridgnorth ...	21	11	26	16	18	12	18	19	21	31	20	19	232
Wem	25	15	28	15	18	12	21	22	24	30	26	24	260
Newport	17	10	24	13	17	8	19	18	18	28	22	14	208
Shrewsbury ...	15	9	19	9	16	10	16	16	16	27	14	13	180
Fitz	20	16	24	16	21	12	22	24	23	29	20	20	247
Newport	17	10	22	12	17	8	17	16	17	27	17	13	193
Roden	16	8	20	13	18	10	17	17	17	28	14	14	192
Shrewsbury ...	15	9	18	7	12	11	17	16	14	25	12	12	168
Shrewsbury ...	16	10	16	8	16	10	14	18	15	27	18	16	184
Totals ...	573	343	694	364	499	290	480	555	559	861	515	464	6197
Means ...	19·1	11·4	23·1	12·1	16·6	9·7	16·0	18·5	18·6	28·7	17·2	15·5	206·6

* A rainy day means a day on which at least ·01 of rain fell.

TABLE No. 3.

GREATEST RAINFALL IN 24 HOURS, WITH DATES.

	Jan.	Date.	Feb.	Date.	Mar.	Date.	Apl.	Date.	May.	Date.	June.	Date.	July.	Date.	Aug.	Date.	Sept.	Date.	Oct.	Date.	Nov.	Date.	Dec.	Date.
Woolstaston ...	·62	4	·95	23	·62	13	·60	28	1·18	5	·96	14	·90	19	·90	24	·83	10	1·10	27	1·00	27	·56	10
Bishop's Castle...	·67	4	·78	24	·43	13	·58	28	·79	5	·65	9	·88	22	·76	17	·80	10	1·25	27	·55	27	·55	12
Preen Manor ...	·58	4	·87	24	·60	17	·46	28	·99	5	·86	14	·66	18	1·45	24	·78	10	1·80	27	·89	27	·71	12
Mount Reservoirs	·83	7	·86	25	1·00	17	·50	29	2·0	6	·5	15	·9	19	1·17	15,18	1·75	11	1·92	31	·83	16	·65	4
Church Stretton	·64	4	·93	24	·63	17	·61	28	·97	5	1·12	14	1·10	18	1·03	24	1·03	10	1·16	27	1·15	27	·60	12
Willey Park ...	·58	4	·75	24	·65	17	·65	12	·80	5	·47	14	·56	19	2·15	24	·80	10	·94	29	·93	27	·59	12
Clunbury ..	·60	4	·95	24	·67	1	·70	28	·53	3	·67	9	·50	21	·89	24	·76	10	1·09	14	·62	27	·70	12
Bridgnorth ..	·80	2	·58	24	·68	14	·75	28	·71	30	·48	14	·45	21	·90	24	·76	1	1·00	27	·70	28	·47	12
Stokesay ...	·73	4	·80	24	·71	17	·74	28	·67	5	·70	14	1·41	17	1·13	25	·73	10	1·30	27	·83	27	·45	8
Pontesbury ...	·57	4	·70	13	·70	13	·54	29	·42	3	·41	15	·71	21	.93	24	·79	10	1·00	28	·72	27	·43	12
Shifnal	·58	8	·61	24	·62	17	·50	28	·44	3	·49	14	·37	19	1·64	24	·70	10	·96	27	1·08	27	·52	8
Knighton	·22	5	·40	24	·70	17	·44	28	·35	15	·47	14	·57	21	1·01	17	·90	10	1·17	14	1·03	27	·41	8
Ellesmere ...	·63	6	·56	24	1·00	17	·46	30	·54	3	·45	14	·47	21	1·12	17	1·30	10	1·60	27	·55	27	·42	12
Bridgnorth ..	·74	4	1·06	24	·98	17	·72	28	·95	5	·37	14	·48	19	2·0	24	1·02	10	1·2	27	·96	27	·92	12
Ashford, Ludlow	·76	2	1·08	24	·61	10	·56	28	·68	5	1·09	14	·75	21	1·00	24	·52	28	1·15	14	·55	27	·72	12

TABLE No. 3—(continued.)

	Jan.	Date.	Feb.	Date.	Mar.	Date	Apl	Date.	May.	Date.	June.	Date.	July	Date.	Aug.	Date.	Sept.	Date.	Oct.	Date.	Nov.	Date.	Dec.	Date.
Bromfield ..	·73	15	1·01	24	·61	1	·49	12	·53	3	·85	14	·64	18	1·05	10	·56	10	1·24	14	·53	11	·41	8
Bromfield ...	·85	7	1·13	24	·64	17	·60	28	·61	3	·97	14	·53	21	1·14	24	·56	28	1·20	14	·59	27	·44	12
Priors Halton ...	·85	4	1·29	24	·69	17	·60	28	·79	5	·87	14	·54	18	1·07	24	·61	10	1·36	14	·49	27	·44	12
Newport ..	·50	4	·49	24	·64	17	·49	28	·60	5	·38	14	·42	22	·93	17	·99	24	·98	27	1·02	27	·44	8
Shifnal	·50	4	·67	24	·77	17	·59	28	·37	29	·30	15	·47	21	1·27	24	·77	24	·91	27	·96	27	·60	8
Bridgnorth ...	·60	4	·72	24	·68	17	·57	28	·72	5	·43	14	·43	20	1·76	24	·69	10	·78	11	·79	27	·58	11
Wem	·41	4	·41	24	·71	13	·39	28	·56	5	·27	17	·58	21	·93	17	·89	10	1·24	14	·65	27	·28	12
Edgmond ...	·49	4	·53	24	·60	17	·50	28	·41	5	·40	15	·56	21	·89	17	·75	10	·89	27	·92	22	·47	14
Shrewsbury ..	·54	4	·51	24	·55	13	·41	28	·50	3	·53	14	·51	18	.95	24	·80	9	·92	27	1·00	27	·46	12
Fitz	·58	4	·34	25	·65	13	·39	28	·47	3	·67	14	·53	21	·99	24	1·12	10	1·20	14	·85	27	·48	12
Newport ...	·43	5	·48	24	·56	14	·44	28	·33	15	·42	15	·64	21	·99	17	·79	24	·85	27	·86	27	·42	8
Roden	·56	4	·39	24	·54	14	·44	28	·59	5	·45	14	·76	21	·96	17	·78	10	1·10	14	1·01	27	·66	12
Shrewsbury ...	·58	4	·60	24	·56	13	·38	28	·49	3	·43	14	·73	21	·96	17	·86	10	1·00	27	1·00	27	·50	12
Shrewsbury ..	·51	4	·99	24	·51	13	·36	28	·45	3	·53	14	·70	21	·90	17	·89	1	·89	27	·90	27	·49	8

TABLE No. 4.

Highest and Lowest Temperatures in each Month.

	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.	
	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Woolstaston ...	51	19	54	30	57	30	62	21	71	32	75	37	78	47	71	45	69	38	62	37	54	25	47	22
Bishop's Castle	52	18	58	31	58	32	60	26	72	32	79	36	86	44	71	42	72	34	64	38	54	28	49	24
Church Stretton	52	8	52	22	61	24	62	17	76	26	81	26	83	40	75	34	71	26	65	27	55	16	48	15
Willey Park ...	51	14	57	22	58	26	60	22	74	30	78	32	85	42	78	41	70	32	62	31	53	20	45	17
Stokesay ..	53	16	58	24	60	22	60	21	77	31	78	32	84	39	73	39	69	30	65	34	58	25	52	20
Pontesbury ...	52	15	56	32	60	32	68	27	78	33	78	36	89	47	79	43	74	34	65	38	57	25	49	22
Oakley Park ..	60	12	64	25	66	27	74	21	85	30	87	31	95	35	80	34	75	29	69	29	57	20	47	20
Bromfield ...	53	15	56	26	61	28	60	23	57	32	79	37	83	41	75	37	70	32	64	32	55	24	48	21
Shifnal	53	18	56	25	59	27	59	21	73	33	79	32	78	38	71	40	69	33	61	34	52	24	47	22
Shrewsbury ...	...	12	...	27	...	29	...	23	..	31	..	33	...	41	..	39	...	34	...	35	..	22	..	20
Fitz	53	12	58	27	58	30	60	22	70	30	77	32	85	45	73	40	70	36	66	36	57	22	50	18
Roden	55	14	61	27	61	31	58	25	76	32	71	30	84	37	73	38	71	30	63	37	61	22	49	20

TABLE No. 5.

STATION.	ELEVATION.	LATITUDE.	LONGITUDE.	OBSERVER.
(1) Woolstaston ...	800	52° 25′ 12″	2° 48′ 10″	Mr. W. Bowden for Mrs. D. Carr.
(2) Lydham Manor ...	740			A. H. Sykes, Esq. (Lydham Manor).
(3) Bishops Castle ...	720	52° 29′ 0″	3° 0′ 0″	E. Griffiths, Esq. (Castle Street).
(4) Preen Manor ...	700	52° 34′ 30″	2° 40′ 30″	C. B. Sparrow, Esq.
(5) Oswestry ..	698			G. William Lacy, Esq. C.E. (Mount Reservoir).
(6) Church Stretton ...	645	52° 32′ 22″	2° 48′ 50″	Rev. R. P. Dansey.
(7) Willey Park ...	500	52° 34′ 0″	2° 35′ 25″	Lord Forester.
(8) Clunbury ...	497	52° 25′ 0″	2° 55′ 40″	Rev. W. G. Clark Maxwell.
(9) Bridgnorth ...	460	52° 28′ 25″	2° 28′ 50″	E. M. Wakeman, Esq., (Coton Hall).
(10) Stokesay ...	371	52° 26′ 0″	2° 49′ 0″	Rev. W. M. D. LaTouche.
(11) Pontesbury ...	355	52° 39′ 0″	2° 54′ 0″	Mr. W. Reeve Croft (Somerville).
(12) Shifnal ...	355	52° 40′ 20″	2° 22′ 40″	W. J. Brooke, Esq. (Haughton Hall).
(13) Knighton ...	351			Geo. R. Jebb, Esq., C.E.
(14) Ellesmere ...	340	52° 54′ 40″	2° 48′ 10″	Mrs. A. M. Ashton (The Grange).
(15) Bridgnorth ...	320	52° 33′ 0″	2° 28′ 0″	Rev. H. M. Stallybrass (Cautreyn Cottage).
(16) Ludlow ...	315	52° 20′ 30″	2° 41′ 20″	W. Downes Hall, Esq. (Ashford House).
(17) Bromfield ...	300	52° 22′ 40″	2° 45′ 20″	Mr. T. Reason (Oakley Park).

TABLE No. 5—(continued.)

STATION.	ELEVATION.	LATITUDE.	LONGITUDE.	OBSERVER.
(18) Bromfield ...	300	52° 23′ 0″	2° 45′ 50″	Rev. Prebendary Selwyn.
(19) Priors Halton ...	300	52° 22′ 15″	2° 44′ 50″	Miss Keddie.
(20) Newport ...	280			Col. Leeke (Aston Hall)
(21) Shifnal ...	280	52° 39′ 30″	2° 19′ 0″	Col. Hon. F. Bridgeman (Neachley).
(22) Market Drayton ...	275	52° 50′ 10″	2° 30′ 40″	Mrs. Tayleur (Buntingsdale Hall).
(23) Bridgnorth ...	273			The Rev. Prebendary Burd (Hookfield House).
(24) Wem ...	270	52° 51′ 15″	2° 43′ 30″	Hon. and Rev. G. H. F. Vane
(25) Newport ...	261	52° 46′ 15″	2° 24′ 50″	J. Bodenham, Esq. (Edgmond)
(26) Shrewsbury ..	250	52° 42′ 20″	2° 44′ 20″	T. M. Howells, Esq. (Highfield).
(27) Fitz ...	238	52° 45′ 20″	2° 49′ 0″	Rev. W. Brewster.
(28) Newport ..	210	52° 46′ 30″	2° 24′ 0″	The Principal (Agricultural College).
(29) Roden ...	208	52° 44′ 30″	2° 37′ 40′	W. J. Nowell, Esq. (Royal Meteorological Society).
(30) Shrewsbury ...	173	52° 42′ 0″	2° 45′ 0″	W. Chapple Eddowes (Corporation of Shrewsbury).
(31) Shrewsbury ...	171	52° 42′ 0″		Miss F. H. Rouse-Boughton (Abbey House).